

**UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF ARIZONA**

<hr style="width: 20%; margin-left: 0;"/> IN RE: Bard IVC Filters Products Liability Litigation,)	MD 15-02641-PHX-DGC
)	
)	
)	
<hr style="width: 20%; margin-left: 0;"/> Lisa Hyde and Mark Hyde, a married couple,)	Phoenix, Arizona
)	September 18, 2018
)	
Plaintiffs,)	
)	
v.)	CV 16-00893-PHX-DGC
)	
C.R. Bard, Inc., a New Jersey)	
corporation, and Bard Peripheral)	
Vascular, an Arizona corporation,)	
)	
Defendants.)	
)	

BEFORE: THE HONORABLE DAVID G. CAMPBELL, JUDGE

REPORTER'S TRANSCRIPT OF PROCEEDINGS

TRIAL DAY 1 - P.M. SESSION

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Proceedings Reported by Stenographic Court Reporter
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P R O C E E D I N G S

(Proceedings resumed at 1:29 p.m.)

(Jury present.)

THE COURT: All right, ladies and gentlemen, welcome back.

As indicated, I'm going to now give you some preliminary jury instructions. And these instructions primarily will function -- or focus on some general instructions about the law and how the trial is going to proceed and your duty as jurors.

It is your duty as jurors to find the facts from all of the evidence in the case. To those facts as you find them, you will apply the law as I give it to you. And I will give it to you in instructions at the end of the trial.

You must follow the law as I give it to you, whether you agree with it or not, and you must not be influenced in your decision by any personal likes or dislikes, opinions, prejudices, or sympathy. That means that you must decide the case solely on the evidence before you and the law as I give it to you. You will recall that you took an oath to do so.

As I mentioned, at the end of the trial I will give you final jury instructions. It is those final instructions that will govern your deliberation in the case.

Please do not read into my instructions or anything I may say or do during the trial as indicating any opinion I have

1 of the evidence or of what your verdict should be. The verdict
2 is entirely a matter for you to decide.

3 To help you follow the evidence, I will give you a
4 brief summary of the positions of the parties.

5 This is a personal injury case against a medical
6 product manufacturer. The plaintiffs are Lisa Hyde and her
7 husband, Mark Hyde. Mrs. Hyde is a 54-year-old woman who had a
8 Bard filter placed in her inferior vena cava, the vein that
9 carries blood back to the heart. An IVC filter, as it is
10 called, is intended to catch blood clots before they reach the
11 heart or lungs.

12 Defendants, C.R. Bard Inc. and Bard Peripheral
13 Vascular, designed, manufactured, and sold the Bard filter.

14 Plaintiffs claim that the Bard filter was defectively
15 and negligently designed. They allege that Mrs. Hyde was
16 injured by the filter, and they seek to recover money from
17 defendants to compensate for her injuries and for Mr. Hyde's
18 loss of consortium. Plaintiffs also seek damages to punish
19 defendants for their allegedly wrongful conduct.

20 Defendants deny that they are liable or that the
21 filter was defectively or negligently designed. Defendants
22 assert that they are not responsible for any injuries or
23 damages suffered by plaintiffs.

24 Although there are two defendants in this case,
25 C.R. Bard Inc. and Bard Peripheral Vascular Inc., you should

1 decide the case as to the two defendants jointly. As a result,
2 in these instructions and often in my comments during trial and
3 the lawyers' comments, we will refer to the defendants
4 collectively as "Bard."

5 Unless otherwise stated, the instructions that I give
6 you apply to both Bard and the plaintiffs.

7 The evidence that you will consider in deciding what
8 the facts are consists of the sworn testimony of the witnesses
9 that you will hear, the exhibits that are admitted into
10 evidence, any facts to which the lawyers have agreed -- and if
11 they have agreed on facts, that will be made clear to you --
12 and any facts that I may instruct you to accept as proved.

13 In reaching your verdict, you may consider only the
14 testimony and the exhibits received in the evidence and the
15 facts to which the parties have agreed. Certain things are not
16 evidence, and you may not consider them in deciding what the
17 facts are. I will list them for you.

18 First, arguments and statements by lawyers are not
19 evidence. The lawyers are not witnesses. What they may say in
20 their opening statements, closing arguments, and at other times
21 is intended to help you interpret the evidence, but it is not
22 evidence. If the facts as you find them differ from the way
23 the lawyers have stated them, your finding of the facts
24 controls.

25 Second, questions and objections by lawyers are not

1 evidence. Attorneys have a duty to their clients to object
2 when they believe a question is improper under the rules of
3 evidence. You should not be influenced by the objection of a
4 lawyer or by my ruling on it.

5 Third, any testimony that is excluded or stricken by
6 me or that I instruct you to disregard is not evidence and must
7 not be considered. In addition, some evidence may be received
8 only for a limited purpose, and if it is, I will instruct you
9 that it is being received for a limited purpose. When I
10 instruct you to consider certain evidence only for a limited
11 purpose, you must do so, and you may not consider that evidence
12 for any other purpose.

13 Fourth, anything you may see or hear when the court is
14 not in session is not evidence, even if it is said or done by a
15 party or by a lawyer. Or by a witness, for that matter. You
16 are to decide the case solely on the evidence that is received
17 here in the courtroom during the trial.

18 Evidence may be direct or circumstantial. Direct
19 evidence is direct proof of a fact such as testimony by a
20 witness about what that witness personally saw or heard or did.
21 Circumstantial evidence is proof of one or more facts from
22 which you can find another fact.

23 You should consider both kinds of evidence. The law
24 makes no distinction between the weight to be given to either
25 direct or circumstantial evidence. It is for you to decide how

1 much weight to give to any evidence.

2 There are rules of evidence that control what can be
3 received into evidence during the trial. When a lawyer asks a
4 question or offers an exhibit and the lawyer on the other side
5 thinks that it is not permitted by the rules of evidence, that
6 lawyer may object.

7 If I overrule the objection, the question may be
8 answered or the exhibit may be received in evidence. If I
9 sustain the objection, the question cannot be answered and the
10 exhibit cannot be received. Whenever I sustain an objection to
11 a question, you must ignore the question and must not guess
12 what the answer might have been.

13 Sometimes I might order that evidence be stricken from
14 the record and that you disregard or ignore that evidence. As
15 I mentioned, that means that when you are deciding the case,
16 you must not consider evidence that was stricken.

17 In deciding the facts in the case, you may have to
18 decide which testimony to believe and which testimony not to
19 believe. You may believe everything a witness says or part of
20 it or none of it.

21 In considering the testimony of any witness, you may
22 take into account the opportunity and ability of the witness to
23 see or hear or know the things testified to; the witness's
24 memory; the witness's manner while testifying; the witness's
25 interest in the outcome of the case, if any; the witness's bias

1 or prejudice, if any; whether other evidence contradicted the
2 witness's testimony; the reasonableness of the witness's
3 testimony in light of all the evidence; and any other factors
4 that bear on believability.

5 Sometimes a witness may say something that is not
6 consistent with something else he or she said. Sometimes
7 different witnesses will give different versions of what
8 happened. People often forget things or make mistakes in what
9 they remember. Also, two people may see the same event but
10 remember it differently. You may consider these differences,
11 but do not decide the testimony is untrue just because it
12 differs from other testimony.

13 However, if you decide that a witness has deliberately
14 testified untruthfully about something important, you may
15 choose not to believe anything that witness said. On the other
16 hand, if you think the witness testified untruthfully about
17 some things but told the truth about others, you may accept the
18 part you think is true and ignore the rest.

19 The weight of the evidence as to a fact does not
20 depend on the number of witnesses who testify about it. What
21 is important is how believable the witnesses are and how much
22 weight you think their testimony deserves.

23 I will now say a few words about your conduct as
24 jurors.

25 First, please keep an open mind throughout the trial,

1 and do not decide what the verdict should be until you and your
2 fellow jurors have completed your deliberations at the end of
3 the case.

4 Second, because you must be the -- because you must
5 decide this case based only on the evidence received in the
6 case and on my instructions as to the law that applies, you
7 must not be exposed to any other information about the case or
8 to the issues it involves during the course of your jury duty.

9 Thus, until the end of the case or until I tell you
10 otherwise, do not communicate with anyone in any way and do not
11 let anyone else communicate with you in any way about the
12 merits of the case or anything to do with it.

13 This includes discussing the case in person, in
14 writing, by phone or electronic means, by email, text
15 messaging, or any internet chat room, blog, website, or
16 application, including but not limited to Facebook, YouTube,
17 Twitter, Instagram, LinkedIn, Snapchat, or any other form of
18 social media. I didn't have to give that instruction five
19 years ago, but we do now. The point is, you don't communicate
20 with anybody in any form.

21 This applies to communicating with your fellow jurors
22 until I give the case to you for deliberation, and it applies
23 to communicating with everyone else, including your family
24 members, your employer, the media or press, and the people
25 involved in the trial, although you obviously can tell your

1 family and your employer that you have been chosen to serve on
2 this jury. But if you are asked or approached in any way about
3 your jury service or anything about this case, you must respond
4 that you have been ordered not to discuss the matter and to
5 report any contact to the Court.

6 Because you will receive all the evidence and legal
7 instruction you may properly consider to return a verdict, do
8 not read, watch, or listen to any news or media accounts or
9 commentary about this case or anything to do with it, although
10 I have no information that there will be news reports about
11 this case.

12 Do not do any research such as consulting
13 dictionaries, searching the internet, or using other reference
14 materials, and do not make any investigation or in any other
15 way try to learn about the case on your own. Do not visit or
16 view any place discussed in this case, and do not use internet
17 programs or other devices to search for or view any place
18 discussed during the trial.

19 Also, do not do any research about the law or the
20 people involved in the case, including the parties, the
21 witnesses, or the lawyers, until after you have been excused as
22 jurors. If you happen to read or hear anything touching on
23 this case in the media or in any other form, turn away and
24 report it to me as soon as possible.

25 These rules that I have just described protect each

1 party's right to have this case decided only on the evidence
2 that has been presented here in court. Witnesses in court take
3 an oath to tell the truth, and the accuracy of their testimony
4 is tested through the trial process. If you do any research or
5 investigation outside of the courtroom on your own or gain any
6 other information through improper communications, then your
7 verdict may be influenced by inaccurate, incomplete, or
8 misleading information that has not been tested by the trial
9 process, and it could be influenced by information that these
10 parties never had an opportunity to address.

11 Each of the parties is entitled to a fair trial by an
12 impartial jury. And if you decide the case based on
13 information not presented in court, you will have denied the
14 parties a fair trial. Please remember that you have taken an
15 oath to follow these rules, and it is very important that you
16 follow them.

17 A juror who violates these restrictions jeopardizes
18 the fairness of these proceedings, and a mistrial could result
19 that would require the entire trial process to start over
20 again. Again, if any of you is exposed to any outside
21 information, please notify me immediately.

22 I urge you to pay close attention to the trial
23 testimony as it is given. During the deliberations at the end
24 of the case, you will not have a transcript of the trial
25 proceedings. Even though we have court reporters here taking

1 down everything that is said, when they get to the end of a
2 trial, they go back and proofread those transcripts and check
3 them against the record and the exhibits to make sure they're
4 completely accurate, and that takes days to do. That won't be
5 finished by the time that you are deliberating, so there will
6 be no transcript, and as a result, it will be important for you
7 to pay close attention as the testimony is given.

8 If you wish, you may take notes to help you remember
9 the evidence. If you do take notes, please keep them to
10 yourself until you go to the jury room to decide the case. Do
11 not let note-taking distract you. When you leave the courtroom
12 during a break or at the end of the day, you can simply leave
13 your notes on your chair. Nobody will read your notes, and
14 they will be here for you when you return to court.

15 Whether or not you take notes, you should rely on your
16 own memory of the evidence. Notes are only to assist your
17 memory. You should not be overly influenced by your notes or
18 the notes of other jurors.

19 From time to time during the trial, it may become
20 necessary for me to talk with the lawyers outside of your
21 hearing, either by having a conference here at the side of the
22 bench, as we've done a couple of times this morning, or perhaps
23 even calling a recess for a few minutes.

24 Please understand that while that happens, we are
25 working. The purpose of this conference -- or these

1 conferences will not be to keep relevant information from you,
2 but to decide how certain evidence is to be treated under the
3 rules of evidence and to avoid confusion and error.

4 We will do what we can to keep the number and length
5 of these conferences to a minimum. I may not always grant a
6 lawyer's request for a conference. Please do not consider my
7 granting or denying a request for a conference as any
8 indication of my opinion of the case or of what your verdict
9 should be.

10 Trials proceed in the following way:

11 First, each side may make an opening statement. An
12 opening statement is not evidence. It is simply an outline to
13 help you understand what that party expects the evidence will
14 show. A party is not required to make an opening statement.

15 The plaintiffs will then present evidence, and counsel
16 for the defendants may cross-examine. Then the defendants may
17 present evidence, and counsel for the plaintiffs may
18 cross-examine.

19 After the evidence has been presented, I will instruct
20 you on the law that applies to the case, and the attorneys will
21 make closing arguments. After that, you will go to the jury
22 room to deliberate on your verdict.

23 Counsel, do you have any corrections or additions to
24 the instructions?

25 MS. REED ZAIC: No, Your Honor.

1 MR. ROGERS: No, Your Honor.

2 THE COURT: All right. Folks, I don't know if you
3 noticed it, but there's been a little static sound in the
4 speakers.

5 You're losing that?

6 JURY MEMBER: I'm beeping, and when it starts beeping,
7 I lose what you're saying.

8 THE COURT: Let's get you another one.

9 JURY MEMBER: Thank you.

10 THE COURT: Beeping means your battery is wearing out,
11 so by all means, raise your hand when that happens.

12 You might have heard a little static on the speaker.
13 That means somebody in the courtroom has their cell phone on.
14 It doesn't work just to mute it. You either need to turn it
15 off or put it on airplane mode, so everybody please check your
16 cell phone now and make sure it's either turned off or on
17 airplane mode.

18 All right. As I mentioned, ladies and gentlemen,
19 there are some facts to which the parties have agreed, and you
20 should treat those facts as having been proved for purposes of
21 the trial. I'm going to read you some introductory facts that
22 the parties have agreed to, and so these are established as
23 accurate for purposes of the trial.

24 The defendant in this case -- the defendants in this
25 case are C.R. Bard Inc. and Bard Peripheral Vascular Inc.,

1 sometimes referred to as BPV. BPV is a wholly owned subsidiary
2 of C.R. Bard Inc., which is the parent company. As I
3 mentioned, throughout this case and in the final jury
4 instructions, we will simply refer to C.R. Bard and BPV
5 collectively as "Bard" or as "defendants."

6 The product that is the subject of this lawsuit is a
7 retrievable Bard IVC filter. And as mentioned, IVC stands for
8 inferior vena cava, the large vein that returns blood to the
9 heart. The Bard filter that is at issue in this case was
10 manufactured, marketed, designed, and sold by Bard.

11 The plaintiffs and the defendants disagree on the
12 specific identity of the Bard filter. Plaintiffs contend that
13 the filter implanted in Mrs. Hyde was known as a G2X filter.
14 Defendants contend that the filter was an Eclipse filter. Both
15 the G2X and the Eclipse are Bard IVC filters; they're just
16 different generations of the IVC filter. But there's a
17 disagreement on whether it was a G2X or an Eclipse.

18 The filter is a conical device, conical in shape, that
19 consists of a main shaft to which 12 struts are attached. And
20 the struts are referred to either as arms or legs. The
21 filter -- and you'll see examples of filters during the trial.
22 The filter is constructed of a nickel titanium alloy called
23 Nitinol.

24 The filter is a medical device and is implanted in the
25 inferior vena cava, the largest vein in the human body. The

1 United States Food and Drug Administration, that will be
2 referred to sometimes as the FDA, cleared the filter for
3 commercial availability through what is known as the 510(k)
4 process outlined in the Food, Drug, and Cosmetic Act.

5 The G2X filter was cleared for commercial availability
6 in the United States for use in patients as a permanent filter
7 with an option of retrieving the filter on October 31st, 2008.

8 The Eclipse filter was cleared for commercial
9 availability in the United States for use in patients as a
10 permanent filter with an option of retrieval on November 23rd,
11 2009.

12 The plaintiff, Lisa Hyde, was under the care of
13 Dr. Shah, S-H-A-H. I can't pronounce his first name well.
14 It's Vinodkumar. Dr. Vinodkumar, is my pronunciation, Shah.
15 Dr. Shah referred Mrs. Hyde to Dr. David Henry, an
16 interventional radiologist, to consult with Mrs. Hyde regarding
17 possible use of an IVC filter.

18 On February 25th of 2011, Dr. David Henry implanted --
19 let me start that over.

20 On February 25th, 2011, Dr. David Henry implanted the
21 filter in Mrs. Hyde's inferior vena cava. On May 6th, 2014,
22 Mrs. Hyde underwent a CT scan, revealing that her IVC filter
23 had fractured, with a fractured strut having migrated to the
24 right ventricle of her heart.

25 On August 26th of 2014, Dr. William Kuo, which is

1 spelled K-U-O, removed the filter and the fractured strut.

2 All right. With those facts having been described, we
3 will proceed now with the opening statement.

4 Ms. Reed Zaic?

5 MS. REED ZAIC: Just wanted to test that up on this
6 monitor.

7 Good afternoon. I believe I introduced myself, and my
8 colleague introduced myself earlier today during the jury
9 selection process, and now you are the jurors that are now
10 impaneled.

11 And beyond the -- or outside of the jury selection
12 process, as the lawyers and representatives of Lisa Hyde and
13 Mark Hyde, we don't get an opportunity to communicate directly
14 with the jury. We get to do it now during opening and one more
15 time before the end of the trial, so I wanted to take the
16 opportunity to thank you for your service. Jury service is
17 extremely important.

18 The judge has given an introduction to this case with
19 some agreed-upon facts and some rules that have been stated to
20 you to follow, not necessarily of your own choosing but --

21 Are you having an issue?

22 JURY MEMBER: Sorry.

23 MS. REED ZAIC: I think she's having an issue with her
24 hearing, the device.

25 If that happens again, I'm sure one of us in the

1 course of who's standing here can get the Court's attention.

2 Is that working?

3 JURY MEMBER: Yes.

4 MS. REED ZAIC: Okay.

5 The judge has given you an introduction to the case,
6 and as the attorney representing the plaintiffs, we get to go
7 first. And that's good, but in a complex case, there are some
8 issues, as the judge discussed, with acronyms and some phrases,
9 and taking notes may be an issue. So if I'm repetitive,
10 forgive me, but in describing the evidence that will come into
11 this case, this being a complex case and being the first one to
12 describe some of this evidence, I want to be very, very clear
13 about it, about this device and about the anatomy.

14 But stepping backwards, you will be receiving evidence
15 in this trial in many different forms. It will come in test --
16 the form of testimony, live witnesses, videotaped witnesses,
17 documents. And some of the documents that you'll be looking at
18 are actually Bard's internal documents within the company
19 during the relevant time period.

20 As the plaintiffs, we believe that the evidence that
21 will be presented to you will support the claims in this case.
22 Those claims include that Mrs. Hyde received a Bard IVC filter.
23 The judge has explained in these stipulated facts that there is
24 an issue and a dispute over which filter she received, but
25 there's no dispute that it was a Bard filter.

1 Second, we believe the evidence will support the fact
2 that this filter in its design was defective. It did not meet
3 the specifications and the risk analysis internally that Bard
4 developed for these filters, and that there was not long-term
5 testing on these filters to predict what might happen to
6 Mrs. Hyde when she received the filter. That includes the fact
7 that the filter, when it was inserted into her, broke apart and
8 one of the pieces traveled to her right ventricle, which was
9 not part of the design of this filter.

10 Now, again, I get to go first, but I want to go back
11 over something that the judge described. The inferior vena
12 cava, the IVC, the largest vein in the body. The idea behind
13 the device, an IVC filter device, is that we have a large vein
14 and a large artery, to put it in very simple terms.

15 If you can see on your screens, the IVC, the inferior
16 vena cava, is the largest vein in the body, represented by the
17 blue column. This is the vein that returns blood from your
18 lower extremities back up to your heart to be oxygenated again,
19 to travel back to your body and keep your tissues healthy.

20 So the aorta, the largest artery in the body, sends
21 the blood away from the heart to oxygenate, and once the oxygen
22 is depleted, that oxygen comes back up through the IVC, the
23 inferior vena cava, as the highway back to the heart and
24 through to the lungs.

25 The concept of the filter, the evidence will show, is

1 that once it is placed in a patient who is at risk for DVT,
2 deep vein thrombosis, which are clots that form in the lower
3 extremities -- and if they form, they might travel up through
4 this vein, the largest vein in the body, to the heart and to
5 the lungs, and that can be very dangerous.

6 So the concept of an IVC filter is a medical device
7 inserted in patients at a higher risk for DVTs to potentially
8 catch a blood clot if it forms, so that like the blood
9 traveling back to the heart and the lungs, it does not go
10 there.

11 So I have an animation to show the insertion of an IVC
12 filter and to give you a better example, or in the context of
13 the evidence coming into this case, the organs that surround
14 the IVC.

15 This is not Mrs. Hyde. This does not depict her
16 specifically, but again, the general depiction of the anatomy
17 of the body. The lungs to the left and right. The heart in
18 the center.

19 As we step behind them, you'll see a moving version of
20 the cartoon that I just displayed, with the inferior vena cava
21 on the left. And the depiction generally of a filter in the
22 vein.

23 And this area, you'll hear from expert witnesses in
24 the case, is an area that is very active with blood flow. And
25 as you can see, it also moves. It's a very, very dynamic area,

1 with the filter affixing with the intention of catching any
2 potential blood clots that form in the legs, if they form and
3 if they travel.

4 So this is the general anatomy. You can see the
5 organs that are close by the IVC, close by that filter, inside
6 an IVC generally. And with that short anatomy lesson, let's
7 step back to the actual filter and the filter history.

8 Bard has a long filter history, starting in the 1990s
9 with a permanent filter. In the 1990s, stepping back in time,
10 if you recall, definitely a different era. In that time period
11 in the medical device world, IVC filters were permanent. They
12 were not designed to be placed and retrieved.

13 And testimony in this case from expert witnesses --
14 there will be experts on both sides. It will not surprise you
15 they won't always agree. But testimony will come into this
16 case through experts stating that once this device is placed
17 and can't come out, it's there forever. And that leads to a
18 decision in a patient's care, to make a decision to put a
19 device in a patient permanently. And that was the situation in
20 the 1990s.

21 Bard -- I'll add to some more acronyms, as you can see
22 up on the screen. Actually, it's not on this slide, but I'll
23 add to your list of acronyms. Bard had an SNF filter. It was
24 called the Simon Nitinol filter. Mr. Simon was a doctor, he
25 was a physician, who invented this version of a permanent

1 filter that Bard acquired from a company called NMT. They
2 acquired the technology and had a permanent filter. I have
3 under this slide that it's 1995. They actually originally had
4 this filter in 1990.

5 But as these filters come on the market, the
6 regulatory pathway that they go through builds upon the
7 previous design or builds upon other filters, which is how Bard
8 got their filters cleared.

9 So in the 1990s, the permanent filter that Bard had
10 was the SNF. To give you a general overview of the continuum,
11 as Bard went forward, again, a segue of what you're going to
12 see a preview in a bit, their first retrievable filter was
13 called the Recovery filter.

14 So the Simon Nitinol filter was first. It was
15 permanent. They developed a retrievable filter, permanent
16 filter that could be retrieved.

17 Then they developed the G2, developed the G2X, which
18 as you heard is one of the filters -- is the filter in dispute
19 in this case. But there is a dispute between which filter
20 Mrs. Hyde had. The other one -- I've outlined them in red --
21 is the Eclipse. And the one that came on the market, developed
22 and manufactured and marketed by Bard, was the Meridian filter.

23 So now heading backwards, starting with the SNF, like
24 I said, it was -- acquired the technology from the NMT company.
25 I mention that because you may see it on documents in evidence

1 coming into the case. Not to be confused, it is a Bard filter.
2 It was a permanent filter that Bard's own employees expressed,
3 including their medical director, had an impressive safety
4 record.

5 But as I mentioned, it was the 1990s and towards the
6 end of the 1990s, and my mention of testimony that would come
7 into evidence regarding the fact that these were permanent
8 filters, and decisions needed to be made about placing
9 something permanently in a patient forever with no design to
10 get it out at the time it was manufactured.

11 The state of the medicine in the end of the 1990s and
12 into the early 2000s is that there was a desire in the medical
13 community, specifically the interventional radiology community,
14 where you have a radiologist that reads a different array of
15 films, you have interventionalists that may go in and do
16 procedures on patients while viewing them at the same time.

17 And amongst the interventional radiology community
18 that would place a lot of these permanent filters, there was a
19 desire to have a device that you wouldn't have to leave in
20 permanently. It would go in permanently, and you could have
21 the option of taking it out.

22 There were filters that were available for very
23 short-term retrievals, short term as in about two weeks, but
24 again, that desire of being able to put in a filter to
25 protect -- with the intention of protecting a patient from

1 potential blood clots going to their heart and lungs and
2 leaving it for a period of time and taking it out was very
3 attractive and very desirable to the interventional radiology
4 community.

5 And towards the end of the 2000s, I anticipate the
6 defendants will bring evidence in about a report from the
7 Surgeon General called "Call to Action." Blood clots can be a
8 serious injury. And in 2008, the Department of Human and
9 Health Services held a workshop. It resulted in a paper being
10 published by the Surgeon General called "Call to Action" about
11 how dangerous blood clots could be. So this is an issue that
12 was known, and interventional radiologists in the early years
13 of the 2000s wanted different options.

14 Seeing as there was no filter on the market in the
15 late '90s and early 2000s that could satisfy this desire of
16 wanting a retrievable filter, there was quite an opportunity in
17 the market. And the first company that could develop one of
18 these permanent filters that could also be retrieved would lead
19 the market. They would have the lead market share.

20 So Bard having acquired the technology for a permanent
21 filter called the Simon Nitinol, when they acquired that
22 technology, also in development was a retrievable filter, a
23 permanent filter based on the original design of the Simon
24 Nitinol filter that could be placed and retrieved. These
25 devices at this time, before clearance to the market, had not

1 been tested in humans.

2 So let me describe some of the testing that went on.
3 First of all, the first step was to test it on the bench. And
4 the bench in a lab is simply a piece of furniture. I've got a
5 depiction of a very clean one there. A bench will be in a
6 laboratory with equipment and testing equipment on top or on
7 the side or around, and this is where bench scientists perform
8 tests that are -- don't occur in the human body.

9 There was also animal testing going on in sheep,
10 developing this first retrievable filter that Bard wanted to
11 send to market first. One of the tests I'll describe --
12 actually, several tests that went on looked for filter failures
13 that were happening very rarely in the permanent filters before
14 retrievables were developed. That included the tilting of the
15 filter.

16 The design was desirable if it would go in and stay in
17 place. A medical device, when it goes in, needs to stay in
18 place, especially in an environment, you'll hear from our
19 experts, where it -- as I showed you in the little movie, that
20 the blood flowing through there and the movement of the vein,
21 stability was very important in the highway back to the heart.

22 So they would do benchtop testing for tilting to make
23 sure that it would center. They would do benchtop testing to
24 make sure it wouldn't perforate that vein. You saw the other
25 organs that were surrounding the vein, that it wouldn't

1 penetrate. It wouldn't go to the aorta or the spine right
2 behind it. They also did testing for fracture resistance.

3 They would do different tests and cyclical tests,
4 you'll hear from one of our engineers. He may actually -- you
5 may actually hear from him this afternoon if I can get through
6 this fast enough, yet still understandably, that there was
7 testing about fractures on these devices to make sure that they
8 would stay intact. A fracture is what actually happened in
9 Mrs. Hyde.

10 And they also tested for migration resistance. And if
11 you look on the screen right now, the very first one I have is
12 a very short description of a migration resistance test. For
13 example, the tests that they used originally with their first
14 retrievable involved PVC pipe to simulate the vein. They lined
15 it with sausage casing. They deployed the Recovery filter to
16 see if it would tear or other failure methods, but the one I'm
17 describing is migration resistance, which was very important,
18 because again, as you saw, the blood was flowing. You don't
19 want it to move.

20 Pressure is the measurement for migration resistance.
21 The goal is to make sure that this filter can resist the
22 pressure coming from below it.

23 And you'll see in later slides, and you'll see in
24 evidence throughout the trial, the measure for pressure is
25 millimeters of mercury, which is a really easy way to describe

1 the method of a thermometer and how it measures temperature.
2 There are ticks on the thermometer. The mercury goes up the
3 higher the pressure of the heat. The symbol for millimeters of
4 mercury is mmHg, millimeters of Hg, which are two Greek words
5 for liquid silver, I believe.

6 So if you see those terms, that is a measurement of
7 pressure. The higher the number, the better the filter can
8 resist that migration pressure. And resist is what you want it
9 to do.

10 So with their bench testing and testing for those
11 different failure modes that they had seen rarely in the
12 permanent filters, and with the migration resistance testing
13 that they also did in animals, one thing they didn't have is
14 any human testing.

15 And again, the goal was to make this a retrievable
16 filter. So the initial clinical study done, and the only
17 clinical study done on humans on retrievable filters up until
18 the mid-2000s for Bard's filters, anyway, was done in Canada.

19 And why Canada? Dr. Murray Asch, the interventional
20 radiologist that ran the lab and was the study director, will
21 testify by videotape. It was because of the regulatory
22 pathways. It was easier for them, "them" being Bard, to come
23 to Canada to have the study done than to have it done in the
24 States. It was easier to get permission to use an experimental
25 device in Canada. So Bard took this study to Canada, and

1 Dr. Murray Asch ran it.

2 Now, studies always have to have an end point, and
3 Bard wanted to know if this filter could be retrieved. The
4 study did not test anything except the insertion and the
5 removal. It did not study long-term safety. It did not study
6 placement long term. It was a six-week test in 35 patients
7 with the goal of determining if it could be removed
8 successfully.

9 And these are some of the results. There were 22
10 procedural difficulties, there were five tilts, one
11 perforation, one caudal migration. Caudal means down to the
12 feet. There was one cephalad migration. Cephalad means up to
13 the head. So sometimes the filter would go up, sometimes it
14 would go down. There was one arm fracture, which is the
15 failure mode that Mrs. Hyde suffered with the arm breaking on
16 her later filter and going to her heart. And there was one
17 fractured leg hook.

18 On the bench, the testimony will show, Bard was
19 already witnessing that its first retrievable filter moved
20 more. It did not stay as stable as the earlier permanent
21 filters and when compared against its own permanent filter, the
22 SNF.

23 But the study was successful according to Dr. Asch,
24 and that is because it met its end point. Recall, the end
25 point was to see if it could be retrieved, not long-term

1 safety, not the effects of what would happen in a human being
2 if it stayed in long term.

3 So Bard packaged up its data, put together a
4 submission, and sent it to the FDA.

5 Now, let's take another segue here. More testimony
6 and evidence you will hear in this case about the FDA. There
7 are two ways to get your medical device on the market in the
8 United States.

9 The first one is PMA, premarket approval. None of the
10 Bard devices went through this pathway. Premarket approval
11 actually approves a medical device. You get a stamp of FDA
12 approval. It is an independent safety review of that device.
13 IVC filters generally do not go through that pathway. Per FDA
14 regulations, Bard's filters did not go through that pathway.

15 The second method of getting a medical device to the
16 market in the United States through the FDA is called 510(k),
17 which is similar to a -- it's a code section of the law. Sort
18 of like your 401(k) is a tax code, the 510(k) is a code in the
19 FDA regulations explaining the rules and the regulations you
20 have to follow and the submission required in order to get
21 clearance. It is not safety review.

22 When you go through the 510(k) process with your
23 medical device, your device at the end is not FDA approved. It
24 is cleared. Now, those two words get twisted -- get
25 interchanged quite a bit when people are discussing generally.

1 Lawyers do it. Judges do it. Witnesses do it. They
2 interchange them when talking about the fact that it's been
3 permitted to be sold in the United States.

4 But there is a very clear regulatory and legal
5 distinction that our experts will discuss between these two.
6 510(k) gives you clearance for your device, not approval. It's
7 an honor system. It is not an official approval nor a
8 determination by the FDA that the product is safe and
9 effective.

10 The 510(k) process does not approve or certify the
11 design of the medical device. It clears it. And the basis for
12 clearing it as opposed to the PMA process of review and
13 providing independent safety review, the standard for the
14 510(k) process is a comparison.

15 If you take your medical device and you have what is
16 called a predicate, a device that is already on the market,
17 which also can be through the 510(k) process, as long as it is
18 comparable and substantially equivalent with regard to safety
19 and efficacy of a device already being sold, that is the
20 standard. If you can show the FDA it doesn't raise any new
21 safety concerns and it's comparable to another device that's
22 already being sold, you can get your medical device cleared for
23 sale.

24 The manufacturer has to certify to the FDA that its
25 information it has submitted in the 510(k) application is true

1 and accurate. They have to provide this with their submission.
2 The FDA is not responsible in the end for the safety of those
3 devices. Our regulatory expert will explain that very clearly.
4 The manufacturer, at the end of the day, is responsible for the
5 safety of the product it manufactured, not the FDA.

6 Again, it's an honor system. The FDA does not
7 independently test these medical devices. Every single one of
8 the applications that will come into evidence, the FDA did not
9 test it. The FDA did not go in and individually independently
10 verify the test data that came in to the FDA. It relies on the
11 manufacturers to be accurate.

12 And as I mentioned, after bench testing, animal
13 testing, and a short-term clinical trial evaluating the ability
14 to retrieve the device, Bard submitted a 510(k) application to
15 the FDA for clearance. And when it received it, it was the
16 first to market with the very first permanent IVC filter that
17 could be retrieved. Again, through the less rigorous process
18 of the FDA.

19 It was cleared as a permanent device in 2002
20 initially, and once Dr. Asch's data was submitted, it got the
21 clearance in July 2003. I go back and point that out simply
22 because the next slide, I want to point out that once it was on
23 the market and being marketed as a retrievable filter, the
24 initial first retrievable filter manufactured by Bard,
25 designed, manufactured, and sold, started to experience adverse

1 events.

2 By December of that year, they were already discussing
3 the design review. Within three months, there were questions
4 about the testing. I mentioned the 50 -- the millimeters of
5 mercury standard. The original specification was that the
6 Recovery filter needed to resist 50 millimeters of mercury, and
7 they were questioning that because of the adverse events that
8 were being reported. There were migrations of this filter
9 indicating the pressure test may not have been accurate, may
10 not have been adequate.

11 Once it was cleared in July 2003 for retrievability,
12 by October, November, and December, they were seeing migrations
13 in both directions, towards the head and towards the feet in a
14 caudal fashion, and fractures.

15 And by the first of the next year, they experienced
16 their first catastrophic injury reported with their first
17 retrievable filter, the Recovery. By April, they had
18 experienced their second. It had been reported to them a
19 second catastrophic injury of a filter migrating.

20 And I want you to look at that date, April 14th, 2004.
21 Within 12 days, Bard was redesigning the filter while the first
22 one was still on the market. They were coming up with their
23 next-generation G2 filter. Stands for Generation 2. It was
24 also called the modified Recovery.

25 I make these segues because as you see the evidence

1 come in, it might be called those things. The modified
2 Recovery, the G2, the G1A. There's different references to it,
3 but the point being is that based on the limited clinical data
4 that they had, and once it was cleared to the market, the
5 clinical data that was coming in was being experienced by
6 patients who were receiving the filter.

7 They sat down and discussed a redesign while still
8 selling the Recovery. And internally, they were conducting
9 health hazard evaluations. So as written by their medical
10 director at the time describing, in the first line, you'll see
11 the catastrophic injuries.

12 They had also reported -- also received reports of 17
13 reports of limb fractures. It was breaking apart. A total of
14 20 arm fractures were reported in 14 cases. 20 arm fractures
15 in 14 cases means more than one arm was breaking. And 11 of
16 the 20 arms remained in the patients, with six patients, and
17 detached arm migrations to the heart or lungs.

18 The MAUDE database contained 25 reports of filter
19 fracture. And Dr. Ciavarella, their medical director, goes
20 through and looks at the events as they're being reported. The
21 MAUDE database, I will do a segue and explain later, it's the
22 FDA database of reports that come in to the FDA of adverse
23 events.

24 But the date of this is July 9th. It was
25 approximately one year. They're still receiving reports of the

1 first retrievable device the first year that it's on the
2 market.

3 Another segue. You will not hear evidence from the
4 plaintiffs that there is any medical device on the market that
5 is 100 percent safe. The testimony and evidence will actually
6 show that all medical devices carry risks.

7 But when manufacturers design a device, they need to
8 make it safe for patients, and they need to guard against
9 defective conditions. And the evidence that you will see
10 coming in with regard to their testing shows that their testing
11 in humans, especially, was not reasonable or adequate.

12 And as the reports continued to come in with the first
13 retrievable device, their marketing director actually stated in
14 an email, "We knew very little about the long-term clinical
15 performance of this device when we launched it."

16 And as I mentioned, they began their redesign,
17 Generation 2. Using the Recovery filter this time and not the
18 Simon Nitinol as the comparator for their 510(k) application to
19 the FDA to get it cleared, they redesigned the Recovery, made
20 the G2.

21 If you look at the pictures, they took the arms and
22 made them longer. And the evidence will show the decision to
23 do that was to try and prevent these migrations that were
24 happening with the original device.

25 It went on the market in August 2005. And when they

1 began to market it, it was only as a permanent filter. Because
2 similar to the first time when they submitted the 510(k)
3 application for the Recovery, their first retrievable, they
4 didn't have any data to show that they could retrieve it.

5 So when the G2 was officially cleared for market, the
6 second generation, they marketed it as taking strength and
7 stability to a new level based on their redesign, increased
8 migration resistance, improved centering, and enhanced fracture
9 resistance. They sold it as a permanent filter because they
10 did not have the data yet.

11 But data is coming in. Reports of adverse events from
12 the field are coming in again with the second-generation G2
13 filter. And the medical director, once again, "I'd like to
14 look more generally at the G2 complaints. I've seen problems
15 with caudal migration, tilting, perforation, mis-deployment,
16 and maybe one or two others. The G2 is a permanent filter. We
17 also have one, the SNF, that has virtually no complaints
18 associated with it. Why shouldn't doctors be using that one
19 rather than the G2?"

20 The evidence, through Dr. Ciavarella's testimony, will
21 show that there was a safer alternative, and it was their
22 filter.

23 But there were competitors coming into the market at
24 this point. Bard was no longer the sole provider of the first
25 retrievable filter that could be left in permanently or taken

1 out as they advertised, and so they began to set up another
2 clinical trial, enrolling patients -- similar to the Asch study
3 but a little bit bigger -- in order to collect that one data
4 point of inserting it and being able to retrieve it so that
5 they could then market it as retrievable.

6 On the previous slide, I showed you Dr. Ciavarella
7 commenting on the safety aspects of the SNF compared to the G2.
8 That was in December of 2008 -- I'm sorry, 2005.

9 And in that same month, they began enrolling patients
10 in a small clinical trial to get the retrievability indication.
11 And this is what it looked like. 100 patients. Six months.
12 Not permanent. Not long term. End point, retrievability.

13 When the study was completed, 91 patients completed
14 the study, 52 filters were able to be retrieved, and there was
15 no follow-up with these patients for six months.

16 Important to note is that clinical trials have a
17 medical monitor, and someone who monitors a clinical trial
18 looks at the adverse events as they're coming in. And the
19 medical monitor in this trial, called the EVEREST trial, I'll
20 point out, his name was Dr. Krish Kandarpa. As the medical
21 monitor, he was assigned with the duties to look at adverse
22 events and also to provide input to the sponsor, who was Bard.

23 At the initial meeting, he had some questions. One of
24 the questions was: What were the problems you faced with the
25 old device?

1 Bard's answer was: Legs breaking off or getting
2 caught.

3 He also asked: At what point must the filter be
4 considered permanent?

5 And Bard's response was: Six months.

6 So once that G2 filter went in, they relayed to the
7 medical monitor in the clinical study for retrievability, at
8 what point is it considered permanent and no longer
9 retrievable? The answer was six months.

10 During the course of the clinical trial, Dr. Kandarpa,
11 as the medical monitor, became concerned about the number of
12 adverse events that were coming in through the clinical trial.
13 Over 50 percent of the patients had had an adverse event or
14 serious adverse events.

15 The evidence will show Dr. Kandarpa, who will appear
16 by video testimony, suggested that it could have used a
17 redesign at that point. Again, looking back, thinking of my
18 slide about the continuum of these devices, this is the history
19 of Bard's retrievable devices and the design elements that went
20 into it.

21 Testimony and evidence you will see and hear in this
22 case will talk about the results of the EVEREST trial. And
23 what's important here to see is that there were overlaps
24 between the adverse events coming in. It wasn't just singular
25 adverse events. Sometimes they were happening all at the same

1 time.

2 So where there were 12 penetrations of the filter
3 penetrating the vein reported in a 91-person study, they were
4 coupled with other adverse events. And testimony and evidence
5 will show that is when the failures happened. When these
6 events come together, not just a singular fracture, but a
7 migration, a tilt, and a fracture, that is when the filter
8 becomes more dangerous.

9 In the EVEREST clinical study, Bard took a look at the
10 data, and they also took a look at the MAUDE database, which
11 I'm going to explain in a minute, the FDA database that
12 collects adverse events. And one of the internal discussions
13 they had -- this is directly from evidence that will come in on
14 a PowerPoint slide reporting back about the EVEREST clinical
15 study.

16 "Caudal migration, tilt, perforation, and fractures
17 are the most commonly occurring complications associated with
18 the filter." This is the G2. "Eliminating these failure modes
19 would reduce number of filter complaints from 152 to 34."
20 That's by 78 percent.

21 This internal discussion was not submitted in their
22 510(k) application to the FDA when they submitted the EVEREST
23 data to get the permission to sell the device as a retrievable
24 device.

25 And when I say they took a look at the data and they

1 took a look at the MAUDE database, evidence will come into the
2 case about the MAUDE database. I anticipate that the
3 defendants' evidence will suggest that the MAUDE database is
4 not to be used to calculate rates.

5 This is actually a screenshot from the FDA database,
6 and it's not complete. I've taken the headers to explain what
7 it is. MAUDE stands for Manufacturer And User Facility Device
8 Experience.

9 And there is a quote that says, "The incidence or
10 prevalence of an event cannot be determined from this reporting
11 system alone due to potential underreporting of events and lack
12 of information about frequency of device use."

13 In the United States, the reporting system to the FDA
14 is voluntary, whereas a manufacturer and some people involved
15 in the manufacture and distribution of medical devices are
16 required by regulation to report adverse events that come in to
17 them. For example, if an adverse event is reported to Bard,
18 they are required under the regulations to report it to FDA.
19 And that information goes into the MAUDE database, which is
20 publicly available.

21 But they're not the only reporters. Doctors report.
22 Patients report. Individual family members report adverse
23 events. But they're not required to. And that is the point.
24 One of the weaknesses of a public database like MAUDE is not
25 all events get reported.

1 And Dr. Ciavarella, Bard's medical director during the
2 relevant time period, actually testified that the
3 underreporting involves 1 to 5 percent, meaning only about 1 to
4 5 percent -- as he says, there's a consensus. About only 1 to
5 5 percent of adverse events are reported to the FDA.

6 And the last quote I have down there is that "MDR
7 data," which is medical device reporting -- more acronyms.
8 "MDR reporting" -- I'm sorry, "MDR data alone cannot be used to
9 establish rates of events, evaluate a change in event rates
10 over time, or compare event rates between devices."

11 But the evidence will show that's exactly what Bard
12 did. That is the information that they began to use about
13 their competitors.

14 Fractions. If you use them or you remember them,
15 you'll remember there's a numerator and a denominator. And one
16 of the issues with the FDA indicating you shouldn't use this
17 information as a rate is because it's only the numerator. You
18 only have a number of events. The denominator would be the
19 units, the devices. You have to have a division. That's what
20 creates a rate.

21 But Bard knows its rates. It knows its adverse events
22 because they're reported to them and they report them to the
23 FDA, and they know how many units they have sold. But the
24 evidence and testimony will show that they can also get these
25 resources from their competitors.

1 They can see how the competitive device is performing
2 by looking at the number of adverse events. Although
3 underreported, it's fewer than actual, they can look at how
4 many events have happened with a competitor, such as a fracture
5 of a competitor's device. And they have resources that they
6 can gather estimates of the number of devices sold and create a
7 rate, and Bard has used this information internally in the
8 past.

9 Again, EVEREST end point was retrievability. They
10 were able to retrieve the device in a short-term study with a
11 few number of patients. They were able to package that device
12 application for 510(k) clearance and submit it to the FDA.

13 And the predicate that they used this time, remember,
14 was this Simon Nitinol, then the first retrievable was the
15 Recovery based on the Simon Nitinol, and then the G2 based on
16 the Recovery. Now the G2 has based itself on itself. The
17 original application to get permanent clearance, and now they
18 have a study with data showing that it can be retrieved.

19 So between August of 2005 and January of 2008, Bard
20 did not have a device on the market that was retrievable. But
21 the 510(k) application went in in light of the -- despite the
22 data of EVEREST of the failures.

23 The FDA does not conduct their own tests, recall.
24 This is a less rigorous pathway. The FDA does not
25 independently dig underneath and interview and verify the data.

1 And Bard did not provide that internal discussion about if we
2 reduce the complaints by this amount, we could eliminate up to
3 78 percent.

4 And again, between 2005 and 2008, they had no
5 retrievable filter. And the evidence will show they were
6 trying to keep their market share, so they continued to issue
7 and get clearance for additional devices. Again, it was a long
8 continuum I started with.

9 So once the G2 device, the G2 filter itself was
10 cleared for permanent placement, three years later it was
11 cleared for retrievable placement. And in the absence of a
12 newer filter coming out, they also changed the device systems.
13 Same filter, changing the device, adding a hook at the top. A
14 benefit of retrievability, is the way that they market it.

15 And by October of 2008, the G2 filter that had gone
16 through the EVEREST trial, reports coming in, being compared to
17 the original permanent device as not as safe, it is now the G2X
18 with the hook on the top, the same filter. And this is the
19 filter that Lisa Hyde received.

20 Again, there is a dispute over which one she received,
21 in full candor, but this is the one that we feel the evidence
22 will support that she received. It was cleared in 2008. She
23 received her filter in February of 2011.

24 And part of the specifications -- we've been talking
25 about design. Part of the design specifications originally for

1 the G2 filter, you'll see on the screen. Clinical terms. The
2 intended use. Permanent or temporary. And user needs include
3 permanent or temporary.

4 There's also a dispute, you'll see in the evidence as
5 it comes in, as to whether Lisa Hyde needed a permanent or a
6 temporary filter. But the evidence will show that the design
7 specification for the G2 filter was for permanent or temporary.
8 That is the way it was designed.

9 Those are the specifications, including the fact that
10 the medical monitor asked the questions: At what point does
11 the G2 filter become permanent? And Bard's answer was: At six
12 months. So despite permanent or temporary, the specification
13 is that it's supposed to be both.

14 And again, competitors had entered the market by 2008,
15 so this was also about the same time, the evidence will show,
16 that the Surgeon General's report was released about the
17 problems and the concern about blood clots.

18 As you can see in the top line of this SWOT, which
19 stands for Strengths, Weaknesses, Opportunities, and Threats --
20 it is a marketing term. And the objective was to increase
21 revenue and capture more market share.

22 This is evidence that will come in as a PowerPoint
23 presentation that was presented discussing gathering more
24 market share for this particular area of devices. And the
25 issues that came up were a lack of thorough understanding of

1 the dynamics of caval anatomy. Remember, going back to the
2 initial retrievable filter, there was commentary that it was
3 released without long-term clinical data and how it might
4 perform.

5 They also mentioned: We have historical reactive
6 evolution design mind-set. Product complications forcing focus
7 on reactive designing. And a limited understanding of user
8 needs.

9 So by May of 2008, they're discussing the market and
10 how they would like to gather more of a market share.

11 To quickly recap, they started with the SNF, the
12 permanent filter. Their first retrievable was the Recovery,
13 which was based and predicated on the Simon Nitinol filter. In
14 August of 2005, the G2 filter was a redesign of the Recovery
15 based on the adverse events that were coming in. There were no
16 human clinical trials other than the initial 35-patient study
17 with Dr. Asch in Canada.

18 After the EVEREST trial that I just described with
19 Dr. Kandarpa as the medical monitor, the data was packaged and
20 they received a retrievable indication and could market it that
21 way.

22 By June of 2008, the G2 filter was out. If you look
23 at these dates, in July of 2003 with their first retrievable,
24 the Recovery, and June of 2008 -- excuse me, I believe that
25 date is wrong. It is October 31st, 2008, the G2X was cleared

1 for market. I apologize. Just noticed that.

2 But the point being is that in five years, they've had
3 four filters in a competitive market. And they designed
4 another one. The Eclipse filter, which was, the testimony will
5 show from their lead engineer, a G2 filter that was
6 electropolished. Electropolishing was a buffing and polishing
7 of the surface in an attempt to reduce fractures.

8 And despite the dispute of whether Lisa Hyde received
9 a G2X filter or an Eclipse filter, it fractured regardless of
10 the specifications and increasing fracture resistance in the
11 Eclipse filter.

12 The next generation was the Meridian filter. The
13 reports that were coming in over the years associated with
14 Bard's retrievable filters is they were moving and they were
15 not stable.

16 By 2010, they had developed the Meridian filter that
17 was essentially the G2 filter with an addition of what they
18 called caudal anchors. They looked like little anchors on the
19 arms of the filter to stabilize it and keep it in place, and
20 the testimony will show that was an effort to make it safer.

21 But the issue I want to point out here is that Lisa
22 Hyde received an Eclipse filter in February of 2011. Those
23 were the filters that were on the shelves at her hospital, the
24 evidence will show. And during that time period, they had
25 already submitted, two generations later, a filter for

1 clearance to the FDA. There is no evidence that sales
2 representatives were asked to go and get old filters, whether
3 it was the G2X or the Eclipse.

4 By 2010, they had a filter that they marketed, were
5 trying to market, as even more stable. They had the filter
6 itself. It wasn't a concept. It wasn't a prototype. It was
7 one that they thought was safer.

8 So at this point in the continuum, you have the
9 medical director saying originally with the G2 -- questioning
10 why doctors would be using it instead of the SNF. Then you
11 have the Meridian that was already submitted to the FDA when
12 Lisa Hyde got her filter.

13 This is one of Bard's own documents showing these
14 filters and how similar they were. The original G2. The G2
15 Express, where they've indicated the only change is the hook.
16 It's the same filter. The Eclipse filter was electropolished
17 to reduce fractures, but it was still in the G2 family of
18 filters. And the Meridian I just described, that was submitted
19 to the FDA prior to her getting her G2 filter, added caudal
20 anchors to stabilize the device.

21 And regardless of whether Lisa Hyde needed a temporary
22 or permanent filter and regardless of whether it was a G2X or
23 an Eclipse, the safety characteristics based on Bard's own risk
24 analysis, you can see on the screen for the G2X, the Eclipse,
25 and the Meridian, all had the same language. The

1 characteristics related to the safety of the device. What
2 determines the lifetime of the medical device? The comment is:
3 The intended implant duration is for the life of the patient.

4 Lisa Hyde's filter, whether a G2X or an Eclipse, did
5 not live up to this internal risk analysis. It did not survive
6 the life of her. It malfunctioned and broke, in opposite to
7 the specification and the analysis.

8 As I mentioned, SNF was indicated by the medical
9 director as a safer device. The Meridian was already submitted
10 as a safer device to the FDA before she received her filter,
11 Lisa Hyde.

12 And this is the specification for the Meridian.
13 Again, a product performance specification for a device that in
14 2010, before she received her filter, they had already run
15 these tests on and developed these specifications.

16 I'd like to point out -- if I knew how to turn on the
17 red dot -- the column that starts with the word "OptEase." It
18 is in yellow.

19 The OptEase filter is a competitor. And when they
20 were designing these specifications and testing this device,
21 this later device with caudal anchors to make it more stable,
22 they had done an analysis with the OptEase, their competitor.
23 It has an acceptable clinical history of caudal migration
24 resistance as well as a lower complaint rate for caudal
25 migration then G2, G2X, and Eclipse.

1 And the information that they pulled in order to
2 develop that standard, that specification for their next
3 product, was the MAUDE database. This is one of the failure
4 modes that the G2X filter and the Eclipse filter suffered from,
5 caudal migration.

6 So this is three, by my count. The testimony and
7 evidence will show three different safer alternative designs to
8 the one that Lisa Hyde received. And the next slide -- I
9 should have gone to it first. I'd blown up that small language
10 I was trying to send you to. The OptEase has an acceptable
11 clinical history, has a lower complaint rate for caudal
12 migration than two of the filters in dispute in this case.

13 So looking back, even at this point, even with the
14 Meridian, there was no long-term clinical testing of these
15 retrievable devices. There were a total of two clinical trials
16 that Bard sponsored, put together, designed, and run and
17 collected data from. They were small patient pools, one 35
18 patients, one under 100 patients. One was for only six weeks
19 looking at retrievability, and one was only for six months.
20 There was no human clinical trial data on the long-term use of
21 leaving this in permanently.

22 I anticipate during the course of this trial the
23 evidence that the defendants will bring in in defense of this
24 is that the failure rates complied with industry standards.
25 And one of the documents they will introduce is called the SRI

1 guidelines.

2 But evidence and testimony and expert witness
3 testimony, including some of Bard's own witnesses, will
4 indicate that these guidelines were never intended to predict
5 risk. They were not intended to be a tool to reduce risk, and
6 they were not intended to guide manufacturers as to the safety
7 of their devices.

8 And with regard to efficacy, Bard's own medical --
9 excuse me, marketing director, not medical director --
10 marketing director, Janet Hudnall, who you will hear from,
11 admitted that there is no way to know if a filter has ever
12 stopped a clot. Developing a DVT, it converting to a clot that
13 travels, there is no study to show exactly how many times a
14 filter actually stops a clot.

15 And in 2008, when the Surgeon General's report came
16 out concerned about blood clots, there's been information
17 that's come out since, including a report -- a retrospective
18 analysis. In other words, not a clinical trial that Bard put
19 together looking forward, but going back into patient databases
20 and pulling information on people who have had IVC filters.

21 And you will hear his testimony that in a
22 retrospective evaluation of an analysis of looking at patient
23 data, 30 million people: We do not know based on this study of
24 30 million people whether or not vena cava filters were
25 effective in decreasing the rate of fatal PE, which is

1 important. That was after the Surgeon General's report.

2 There will also be medical literature that you'll hear
3 about discussed amongst the experts that came after that 2008
4 report, including a paper by a gentleman with the last name
5 Angel, who did a study of the G2 filter in particular and
6 looking at the available medical reports.

7 84 percent of all reports of IV filter fracture to the
8 United States FDA were that of the Bard filter. And they're
9 responsible for 59 percent of all reports of adverse events to
10 FDA concerning IVC filters. Again, the science developing
11 after the Surgeon General's report.

12 In addition to the medical director touting the Simon
13 Nitinol filter as a safer alternative to the G2 and the early
14 development of the IVC design history for Bard, the sales force
15 was also saying: May I suggest the filter on the market that
16 has been on the market for the longest time in its current
17 form, the Simon Nitinol. You want a filter that will give you
18 the greatest chance of reducing your complications. The Simon
19 Nitinol is that filter.

20 I have a spreadsheet from MAUDE that shows this.

21 I want to change gears a little bit about the dispute
22 between what filter Lisa Hyde received.

23 You'll hear from marketing individuals in this case
24 that will testify live and by videotape. And one of the
25 communications that went out to the sales staff in April of

1 2010 -- this is almost a year before Lisa received her G2X
2 filter -- was an indication to the sales team that: We have
3 officially stopped selling G2X in the United States and have
4 transitioned over to the Eclipse.

5 Again, remember, the continuum was the G2, the G2X,
6 then the Eclipse, then the Meridian.

7 So after they had developed and gotten clearance for
8 the Eclipse filter, this memo went out saying: We're not
9 selling the G2X anymore. We're transitioning to the Eclipse.

10 But as I mentioned, there is no evidence that Bard
11 sent an edict or a directive for sales individuals to go out to
12 hospitals to make sure that hospitals were changing out their
13 inventory. If they purchased them beforehand and the inventory
14 was still on the shelves, there was no directive from Bard to
15 take those filters off the shelf and arrange some replacement
16 or buyout for them to have the newer filters. That was in
17 2010.

18 In February of 2011, just days before Lisa got her
19 filter in February, on February 25th, there was an email
20 exchange between the sales representative in the region of the
21 hospital in Wisconsin where Lisa Hyde received her filter. The
22 response was they still had G2 in stock. Days before she
23 received her filter.

24 And after she received her filter, in April, if you
25 read from the bottom up as emails go, Matt, who was the sales

1 representative, Matt Fermanich: I have two G2 filter systems
2 that have expired, with the reference numbers. Would you
3 please be able to replace these?

4 His response: Cynthia, I'm more than happy to help
5 you out there. First, the G2 filter system is being phased
6 out.

7 This is after she received her filter. Phased out.
8 Not "We're not selling it," not "It no longer exists," not "You
9 shouldn't have it on your shelves." It's being phased out. We
10 have a new filter called the Eclipse, which is of the same
11 design of the G2 but has a few new features included. First,
12 the hook on the top, allowing for snare retrieval as well as
13 the normal cone retrieval. Second, the filter itself has been
14 electropolished, as I described, the G2, to lower fracture
15 resistance.

16 As I pointed out earlier, regardless of whether it was
17 a G2 or an Eclipse, the evidence will show that the design
18 specification and the safety and risk analysis were the same in
19 the sense that they should be temporary or permanent,
20 regardless of which one she received.

21 Now, I really want to switch gears and talk about Lisa
22 Hyde. I have it on the slide here generally for your dates --
23 because again, you're limited to taking notes -- that in
24 February she was diagnosed with a pulmonary embolism.

25 Lisa Hyde, she will take the stand and she will

1 testify. She's a mother of three. She is extremely devoted to
2 her children. She's been married to Mark, who was an air
3 traffic controller at the time when they were living in
4 Wisconsin. She has a protein C deficiency, and those sorts of
5 hematology illnesses do make people prone to DVTs.

6 She had a DVT, and she went to the hospital. And it
7 was recommended that she receive an IVC filter to protect her
8 for the potential of a clot traveling to her lungs, and she had
9 had a history of this happening before.

10 You'll hear from Lisa. She agreed to this procedure
11 and to have the filter, believing and expecting that this would
12 protect her and this would help her, a mother with three young
13 children. It was important to her.

14 Between February and May -- let me back up and tell
15 you a little bit more about Lisa and Mark. They lived in
16 Wisconsin at the time that this happened. Mark was an air
17 traffic controller. He was transferred to Las Vegas, Nevada,
18 to McCarran International Airport, as an operations manager.
19 So that may explain the background of why we were in Wisconsin
20 and why they live in Las Vegas now.

21 They've since retired, and they spend a lot of their
22 time doing volunteer work. And their youngest daughter was a
23 later production, so she's still only in high school. So they
24 are at home and active with their daughter.

25 Between 2011 and 2014, after she received her filter,

1 Lisa in 2012, 2013, started to experience various complaints of
2 pain that she couldn't quite put her finger on. She went to a
3 series of doctors' appointments and saw different doctors
4 trying to diagnose this and didn't know what it was.

5 In May of 2014, the pain became bad enough that she
6 thought she had a kidney stone and went to the doctor, and they
7 gave her a CT scan. And it was found incidentally while
8 checking her for a kidney stone that her filter had broken, and
9 part of it had traveled to her heart. It was in her right
10 ventricle.

11 In looking at that CT scan, you can see the placement
12 of it, and it was also butted up against -- it had perforated
13 and penetrated through the vein, and the legs had come in
14 contact with her vertebral body.

15 Lisa will take the stand and she will describe what it
16 was like to experience that, the cold fear. And the only thing
17 good about that day is she finally had an answer to what had
18 been causing her pain, what -- what was it. She had been
19 through several doctors' appointments to figure it out and
20 incidentally discovered that this happened.

21 When she describes finding out about that, she will
22 relay her medical history to you and her doctors' visits and
23 what she was told. Her doctor had not seen this before. She
24 was referred to a cardiologist. The cardiologist had not seen
25 this before. But he immediately told her -- and she'll explain

1 this to you in her testimony as part of the evidence that comes
2 into trial. He explained to her: You need to not do anything
3 that will raise your heart rate.

4 With a piece of metal in her heart, she will explain
5 to you that during the course of her treatment with him, he
6 relayed to her that: You're one beat away from this possibly
7 going through your heart.

8 This was May. They had a trip planned to go to
9 Wisconsin. They had moved to Las Vegas. They wanted to go
10 back and see some family members. Lisa, when she takes the
11 stand, you'll understand, who does not take anything lightly,
12 in dealing with the cardiologist and not having immediate
13 answers, went to find her own answers. She went on the
14 internet, Googled it. She had not heard of this before, and
15 the shock she will relay to you in looking for treatment and
16 options and how did this happen.

17 She came across a doctor online who specialized in
18 removing broken pieces of IVC filters. She went back to her
19 cardiologist, who had done research since then, and Dr. Kuo,
20 who was the doctor, I believe the judge mentioned his name,
21 K-U-O, called her and said, "I believe I can get this filter
22 out. I don't know if I can get the piece out of your heart.
23 And consequently, if we can't get it out, it will be open heart
24 surgery."

25 So in dealing with her cardiologist, dealing with this

1 doctor that she found who could treat her, who was in Stanford,
2 California, he couldn't get her in until August. She was under
3 the care of her cardiologist, who told her: Don't raise your
4 heart rate.

5 And Lisa will testify that this trip to Wisconsin
6 became very important because of the fear of not knowing what
7 would happen to her next. In her mind, this might be the last
8 time she was going to see a lot of these people that she went
9 to see.

10 Her cardiologist who cared for her agreed she should
11 go on this trip. He suggested that they plan out every
12 hospital on the way, or at least know where it is when they are
13 there, and that is what Mark Hyde did. They went on this trip
14 together and planned out the hospitals on the exits on the way
15 on the trip, and she visited with her family.

16 In August she was able to go in and see Dr. Kuo. And
17 I understand this is kind of small. But this was his note:
18 After conducting her own research online, Ms. Hyde discovered
19 the Stanford IVC Filter Clinic. She arrives today with her
20 husband, Mark, and they drove eight hours yesterday from Las
21 Vegas, Nevada, to pursue a complex filter retrieval at
22 Stanford. Her clinical history being an IVC filter and
23 fractured fragment which embolized to the right ventricle, and
24 the operation would be a complex IVC filter removal.

25 The testimony and evidence will show these filters

1 were not designed to be retrieved in a complex manner. They
2 were designed to be implanted percutaneously, and if they were
3 to be removed, they would be removed percutaneously. It would
4 not be a complex procedure to go in and then weave into the
5 heart to take out a broken fragment. It was not part of the
6 design.

7 This next slide is another note that you'll see in
8 evidence from Dr. Kuo with regard to her Bard placement. She
9 was -- had subsequent complications of IVC penetration and a
10 fractured fragment that embolized into the right ventricle.
11 She's here for her complex filter retrieval of a fragment from
12 her right ventricle.

13 On the next slide, you will see a scan that the expert
14 in interventional radiology testifying on behalf of the
15 plaintiffs will go over. This depicts the fact that it was
16 touching her vertebrae and gave her the explanation, finally,
17 of what that pain was.

18 This is a film to show -- if you can see, the contrast
19 in the vena cava is that dark column, with it coming outside
20 the vein itself.

21 And the next slide is actually an x-ray without
22 contrast. You can see the piece that's in her heart, which you
23 can't see on the screen because it's soft tissue. But you can
24 see the procedure that Dr. Kuo put her through in order to
25 retrieve that metal.

1 And with regard to this issue of product
2 identification and the dispute, the testimony that Dr. Kuo will
3 give is that initially on imaging he called this a Bard Eclipse
4 filter. But his impression after it was removed was that it
5 was a Bard G2X filter. This is the man that took it out.

6 Now, I've been talking for a long time, and again,
7 it's the last -- first until the last time that we can address
8 you directly. And the rest of this trial and the way that it's
9 going to go, you're going to hear the testimony and the
10 evidence come in, and we come back at the end and we'll talk to
11 you directly again in our closing arguments.

12 And at that point, I'm confident that the evidence and
13 testimony that comes into this case will support a verdict for
14 Lisa Hyde. And at that point, we will come back and ask you
15 for one.

16 Thank you for your attention. Again, thank you on
17 behalf of the plaintiffs and Mrs. Hyde and Mr. Hyde for your
18 service on this jury today.

19 THE COURT: All right. Thanks, Ms. Reed Zaic.

20 Members of the jury, we're going to take the afternoon
21 break at this time before we hear the defendants' opening
22 statement.

23 So we will resume at a quarter after. Please remember
24 not to discuss the case. We'll excuse you at this time, and
25 you can head out this way to the jury room. We'll see

1 everybody at a quarter after.

2 (Recess taken, 3:01 p.m. to 3:15 p.m.)

3 THE COURT: Mr. Rogers, you may continue.

4 MR. ROGERS: Thank you, Your Honor.

5 May it please the Court, and ladies and gentlemen of
6 the jury. My name is Jim Rogers, and I along with Ms. Helm and
7 Mr. Condo are honored and privileged to represent C.R. Bard in
8 this case.

9 Now, I expect that you --

10 THE COURT: Sorry, Mr. Rogers.

11 We're still getting static.

12 MR. ROGERS: Oh, I'm sorry.

13 THE COURT: We frisked the jury during the break, and
14 we know it's not their problem. Somebody has your phone on.
15 Please, everybody, turn them off. Don't just put them on
16 airplane mode. Turn them off.

17 Let's wait for a minute, Mr. Rogers, until that
18 happens, and that way you won't get interrupted again.

19 MR. ROGERS: Thank you.

20 THE COURT: All right. Go ahead, Mr. Rogers. Sorry
21 for the interruption.

22 MR. ROGERS: No problem. Thank you, Your Honor.

23 I expect that you have heard some things during the
24 presentation from Ms. Zaic this afternoon that caused you
25 concern. And you may be asking yourself right now, I wonder if

1 IVC filters are a good idea. I wonder if they're safe.

2 I submit to you, ladies and gentlemen, that what
3 you've heard this afternoon so far is just part of the story.
4 And there is a completely different side of this story, a story
5 that will be more whole and more complete than what you heard
6 earlier this afternoon.

7 And at the end of all the evidence that you're going
8 to hear in this case, you're going to be asked to decide one
9 essential question, and that is, did the benefits of the IVC
10 filter that was implanted in Mrs. Hyde -- and that benefit
11 would be to potentially prevent a life-threatening pulmonary
12 embolism -- did it outweigh, did those benefits outweigh the
13 potential risks of an IVC filter?

14 And I will submit to you that the evidence is going to
15 show that there certainly are risks, and we're not going to try
16 and tell you that there's not. But I'll also submit to you
17 that the evidence is going to show from both sides, when you
18 hear experts and witnesses, that these risks of these filters
19 were well known and well understood, and doctors were willing
20 to accept those risks in order to treat their patients.

21 And I also submit to you, as you hear all the
22 evidence, that ultimately you will come to the conclusion that
23 Bard is wrongfully accused in this case. Because the benefits
24 of the IVC filter that was implanted in Mrs. Hyde indeed do
25 outweigh those risks.

1 Now, it's my job this afternoon to try and give you a
2 little bit of a road map about where we're going and try to
3 summarize the evidence that you're going to hear over the
4 course of the next two and a half weeks, so I know that's a
5 long road that you see a map for. But I want to talk to you
6 about four primary things.

7 First, I want to talk about the defendants, C.R. Bard.
8 And that's not just a nameless, faceless corporation. It is
9 comprised of people who are engineers, regulatory
10 professionals, and scientists, who go to work every day just
11 like you do, and they put their skills to work in order to
12 bring medical products to the market so those products can be
13 put in the hands of doctors so those doctors can then improve
14 the health and lives of their patients.

15 I also want to talk to you about the device, the IVC
16 filter. And I expect that when you came into court today, a
17 lot of you had never heard of an IVC filter and didn't know
18 what it was. But what I want to talk to you about is, first of
19 all, the disease state, pulmonary embolism, what IVC filters
20 are intended to prevent.

21 And then I also want to talk to you about the efforts
22 that Bard has made over the years to develop these products, to
23 put them on the market, and continue to innovate over the
24 course of time to make these products better and better year
25 after year.

1 And I'm also going to talk to you about the plaintiff.
2 Now, of course, there's two plaintiffs in this case, both Mr.
3 and Mrs. Hyde. But the person I'm going talk to you about
4 today is Mrs. Hyde. And really, what I want to speak to you
5 about is her medical history and background and why her doctors
6 believed that it was critically important that she receive the
7 maximum protection from a potential pulmonary embolism as
8 possible.

9 And lastly, I want to talk to you about the
10 plaintiffs' burden. You heard some discussion about this
11 during jury selection this morning. But as the individuals who
12 have brought this case against Bard, the Hydes do bear the
13 burden of proof in this case, and I want to talk to you about
14 that and I want to talk to you about the legal hurdles that the
15 Hydes have got to prove to you in order to recover in this
16 case.

17 But first of all, let's talk about the defendants. As
18 you see from this photograph, C.R. Bard is a company that's
19 been around for a very long time. It's over a hundred years
20 old. And the gentleman you see here is Charles Russell Bard,
21 and that's who C.R. Bard is named for and the founder of the
22 company.

23 And he worked with a doctor named Dr. Foley way back
24 when in order to invent a catheter called the Foley catheter.
25 And it's been around now for a hundred years, and it's still

1 used in hospitals today.

2 And of course, you know, things didn't stay stagnant
3 like you see in this picture, but Bard has continued to evolve
4 over the years. And today, C.R. Bard is a large corporation
5 that is based in New Jersey. And it's got multiple divisions
6 that make all kinds of medical devices, including products to
7 be used in the vascular world, urology, oncology, and surgery.

8 But the division that we're going to talk about the
9 most is the peripheral vascular division, and that is the
10 division that makes IVC filters for Bard. And that company is
11 located right here in Phoenix, in the Phoenix area. It's in
12 Tempe.

13 And that company focuses on primarily two different
14 types of products. First of all, vascular products. That
15 means products that you're going to use in your veins. And to
16 give you some examples of that, you see up on the screen now
17 there's a stent. And that's something that you put inside of a
18 blood vessel to hold it open if it's become closed or clogged.

19 And in the bottom left-hand corner, you see what are
20 known as catheters, and those are Power catheters, so doctors
21 can inject a dye called contrast into the veins of a patient so
22 that they can see what's going on inside of their veins.

23 And then Bard also makes -- and Bard Peripheral
24 Vascular makes products that relate to oncology; in other
25 words, the treatment of cancer. And they make a number of

1 biopsy products that help diagnose those kind of conditions.
2 And they also make these products that you see up there called
3 ports, which are surgical ports. And those are used in
4 patients who have to receive medication long term, where you
5 have to have access to people's veins. Something like
6 chemotherapy. And those ports are put into a vein so that the
7 doctors can run the drug through the port and not continually
8 stick the patients over and over again.

9 But most importantly, you're going to meet real
10 people. You're going to meet employees from Bard who are these
11 engineers and regulatory professionals, and you're going to get
12 to hear their stories in this courtroom of their work to bring
13 these products to market and how they continually strive to
14 improve these products over and over again. And you'll get to
15 judge these folks for yourself.

16 The next thing I'm going to talk to you about is the
17 device, the IVC filter. And the first thing I wanted to speak
18 to you about is the disease state. You've heard plenty about
19 this, but I want to talk about it a little bit more.

20 But deep vein thrombosis is a very serious issue in
21 this country, and as you've heard, I mean, this is blood clots
22 that can occur in the veins in your legs and hips, the lower
23 part of the body. And this can happen, you've probably heard,
24 like if you're taking a long flight, you need to get up and
25 walk around, drink plenty of water so that you don't develop

1 these clots.

2 But there's other things that can cause them too.
3 There's certain people that have genetic clotting disorders
4 that they're just naturally prone to develop blood clots. And
5 you can also develop these if you're laid up for a long time,
6 if you've had a surgery that's major or if you've been in a
7 serious accident where you're going to be immobile for a good
8 while. All those people are at risk of developing these clots.

9 And DVT is a very serious problem that needs to be
10 addressed, but the real thing that we're here for today is
11 pulmonary embolism. And that's a much, much more risky
12 complication. As you can see from the diagram that's up on the
13 screen, that happens when one of these blood clots in your legs
14 breaks off and it swims upstream, up through the IVC, the
15 inferior vena cava, goes to the heart, goes through the heart,
16 and then goes to the lung.

17 And if one of those clots hits in just the right
18 place, it can completely stop the blood flow in the lung and
19 cause immediate death. And this is obviously a very serious
20 issue that needs to be addressed and prevented.

21 Now, just a few facts and figures about DVT. A lot of
22 people experience this in the United States. As you can see,
23 it's very high numbers. 600,000 people can be hospitalized a
24 year for that condition, and you also see up here where 200,000
25 to 300,000 people in the U.S. alone can die from a pulmonary

1 embolism each year. And 33 percent of people who will have a
2 DVT or a PE are going to experience another one. So it's
3 particularly dangerous for those individuals who have already
4 got a clotting issue.

5 And you also see up here that the standard treatment
6 for these blood clots is something called anticoagulants. And
7 those are drugs. And they can come in a couple of different
8 forms. You can get them intravenously, and that happens
9 sometimes in hospitals where you get a drug called either
10 heparin or Lovenox. You may have heard of those.

11 Or they can be oral as well. And the one that was
12 around for years and years was a drug called Coumadin, and its
13 trade name is called warfarin, so they're the same thing, but
14 you probably have heard of both of those.

15 And there's also a lot of new-generation
16 anticoagulants that are on the market now that you probably
17 have seen ads for on television, like Xarelto and Eliquis. And
18 those are very effective treatments for blood clots, but
19 certain people are either contraindicated from taking those
20 drugs, meaning that they've got a potential issue to bleed
21 themselves, and you don't want to put somebody who's got a
22 bleeding issue on a blood thinner; or there's other people who
23 might be fine taking a blood thinner but they have to come off,
24 you know, to have surgery or something like that. And at that
25 point, they don't have any protection from a clot.

1 And with some of these individuals, that's really
2 where IVC filters come in, is when somebody's either -- the
3 drug is not effective, it doesn't work, or if they have got a
4 situation where they need to come off and then they can be
5 restored to the anticoagulant later on.

6 But you heard some reference to this during Ms. Zaic's
7 presentation. And this was a document that was published in
8 2008. And as you heard, this was put out by the Surgeon
9 General, and it's a report, but the Surgeon General at the time
10 did not call it a report. He called it a Call to Action.

11 And as you can see from the callout that we have up
12 there, the Surgeon General felt that these issues, which are
13 critically important and which cost the lives of so many
14 Americans, are kind of under the radar screen. And you can see
15 for yourself that the Surgeon General pointed out that very
16 common things that we're all very familiar with, car wrecks,
17 AIDS, breast cancer, those issues do not cause as many deaths
18 as DVT and PE.

19 And so the Surgeon General found the status quo, as he
20 calls it there, unacceptable and wanted to get more information
21 out about what to do with these very serious medical
22 conditions.

23 And two of the things that the Surgeon General
24 includes in this report as effective treatments for DVT and PE
25 are anticoagulants and IVC filters, including retrievable IVC

1 filters, which you're going to hear more about in a moment.

2 Now, what is an IVC filter? Now, you heard some about
3 this, obviously, already. And up on the screen you have
4 pictures of the G2X and the Eclipse filter.

5 But I first want to show you kind of where those go.
6 And you may have gotten a sense of this from the earlier
7 animation. But as you can see, the IVC filter is implanted
8 right there in the inferior vena cava, and it's put usually
9 right where the veins from the kidneys are flowing into the
10 inferior vena cava.

11 And the reason for that is, is when one of these
12 filters catches a clot, it will kind of sit there. And this
13 blood that kind of rushes in from the kidneys washes over the
14 clot and just naturally breaks it up. And so it can then
15 shrink to a size where it is not dangerous, or it just
16 dissolves completely.

17 And I'm going to show you a little animation here --
18 I've got to have an animation, too -- of a filter catching a
19 clot.

20 And here you see the clot traveling up the IVC. It
21 hits the filter, and its blood flow continues to go around it.
22 The clot will ultimately break up and dissolve.

23 Now, let me pick up with Bard's story about IVC
24 filters. And as Ms. Zaic indicated, kind of the story sort of
25 starts in 1990. And you've got a picture here of a filter

1 called a Simon Nitinol filter. And that filter was not
2 developed by C.R. Bard, and it entered the marketplace in 1990.
3 And the company that put it there was called NMT, which stands
4 for Nitinol Medical Technologies.

5 But then later, in the early 2000s, Bard purchased the
6 rights to that filter. But they also purchased the rights to
7 another filter, the Recovery filter, which NMT had under
8 development at the time. And that was going to be a big deal,
9 because that filter was going to be a retrievable filter.

10 The Simon Nitinol filter and all filters that came
11 before that were permanent filters. If they went into a
12 patient, they did not come out unless you removed it
13 surgically. And that really limited the patient population
14 that doctors could use with those filters, because they could
15 only put them into people that they knew would need them for
16 really long term, for the remainder of their lives. And so
17 they primarily got used in terminally ill patients, the very
18 elderly, folks like that.

19 But the retrievable filters kind of revolutionized
20 that world, and I'm going to talk to you a little bit more
21 about that in a minute. But first I'm going to continue this
22 sort of timeline of these IVC filters from Bard.

23 In 2003, Bard introduced the Recovery filter. And
24 then in August of 2005, Bard made its first second-generation
25 filter, the G2 filter. And they learned from their experience

1 with the Recovery filter on how they could potentially improve
2 that filter, and they made improvements to it. And we'll talk
3 about those.

4 And then a few years later, Bard introduced the G2X
5 filter. And as you can see, I put in parentheses there G2
6 Express, because you may see documents through the course of
7 the trial that say G2 Express. But G2 Express and G2X are the
8 same thing. I mean, they're completely synonymous, and I just
9 wanted to flag that for you.

10 But that filter added a hook on the top of the G2
11 filter. And then in January of 2010, Bard introduced the
12 Eclipse filter, which was electropolished. And we'll talk
13 about what that means in just a moment.

14 But first let's talk about retrievable filters. And
15 as I indicated, this was a really big deal, because these
16 filters were just permanent. You know, way back when, when
17 they first started doing this like in the '40s, you know,
18 patients had to be actually opened up surgically and the
19 filters implanted and sewn in and then sewed back up.

20 But as they continued to evolve and make strides in
21 technology, these filters could be put in what we call
22 percutaneously. In other words, you could make just a small
23 incision either in the jugular vein or your femoral vein and
24 run a catheter through there and put these filters in, and
25 that's what the Simon Nitinol filter was. But it was only

1 indicated for permanent use.

2 But there did start to be some what were called
3 retrievable filters, but they were indicated for only very
4 short periods of time. So they were available to a doctor, but
5 they could only stay in for, you know, up to about two weeks or
6 so. And if that wasn't an option and if the patient needed
7 protection longer than that, the filter still needed to come
8 out.

9 And some of these filters actually had a tether on it,
10 so that when they got put in, I mean, there was a wire that
11 literally stayed out of the patient for the filter to be
12 retrieved.

13 But ultimately, these retrievable filters came out,
14 and those allowed doctors to be able to put these in and take
15 them out much, much easier. And these filters could stay in
16 patients for much longer periods of time, or at least some of
17 them could.

18 And the Bard retrievable filters, when they first came
19 into the market, they did not have a specific time period by
20 which they had to be removed. They could be put in and kept in
21 at the discretion of the physician.

22 And so this is really beneficial to patients that only
23 needed temporary protection from an IVC filter. So if you've
24 got a patient who's doing fine on anticoagulants but all of a
25 sudden they need to have surgery, so they have to come off the

1 anticoagulant, then you can put one of these temporary filters
2 in. And then once that surgical period is over and the patient
3 is reestablished on their anticoagulant, you can take the
4 filter out. So that gave a different option to what doctors
5 could do.

6 And you heard some about this Nitinol. I mean, that
7 is what the Bard filters are all made out of. And I certainly,
8 before I got involved in this, I'd never heard of that. But it
9 was developed by Navy scientists in the 1960s, and it really is
10 kind of interesting because this particular metal has what is
11 called shape memory. And so when it is originally forged into
12 a shape at a certain temperature, the filter or the product,
13 whatever it is that's made of Nitinol, will remember that
14 shape.

15 So you can take this and forge it and then keep it
16 cold, and it will stay in a certain shape. And then you can
17 twist it up and do whatever you want to, and if it's cold, it's
18 going to be -- retain whatever shape you put it in. But if
19 it's exposed to a warmer temperature, like when it gets into
20 the actual interior of the body, the filter will remember, or a
21 product made of Nitinol will remember what shape it was
22 originally forged in, and it will kind of immediately just
23 return to that shape.

24 And I'm going to show you an animation of kind of the
25 implantation of a filter so that you can see this.

1 But as I mentioned a moment ago, you can either do a
2 jugular approach or a femoral approach. And with the Bard
3 filters, you can do either. With certain filters, it's limited
4 to one or the other.

5 But what you're going to see here is a femoral
6 approach. In other words, this is going to be a situation
7 where the doctor would have made a small incision in the leg
8 and then is running catheters and wires up through the leg into
9 the IVC. So I just wanted you to have that orientation of what
10 this was like.

11 All right. The first thing you see, that's a
12 guidewire. That's the first thing that goes in, and then a
13 sheath goes over the guidewire. And the sheath gets pulled
14 back. And then the catheter that has got the filter on it is
15 put in, and as soon as that catheter is pulled back, the filter
16 springs back into shape because these Nitinol filters
17 understand and remember what shape they were supposed to have.

18 And this is just a little bit different angle. And
19 there's the filter, catheter comes back, and the filter springs
20 into shape.

21 And along those same lines, I want to show you an
22 animation of a retrieval. And retrievals, unlike the
23 implantation of a filter which can kind of come from either the
24 jugular or the femoral -- with the Bard filters, it has to come
25 from the jugular direction because those are the -- you know,

1 it's got the hooks on the top, and that's what you have to kind
2 of catch.

3 But you'll see here how this works. First, the
4 guidewire is going to come down and run through the filter.
5 And then a catheter is going to follow. And this is using a
6 little device called the recovery cone. And it is going to
7 open up like an umbrella and then grab the tip of the filter,
8 and then the doctor pulls it back. And the filter will
9 dislodge from the cava and then go back up into the catheter
10 where it can be retrieved.

11 Okay. Let's talk a little bit about the Recovery and
12 the G2, and you heard some of this in Ms. Zaic's presentation.
13 And the Recovery was the first-generation retrievable filter.
14 Now, I need to spend some time on this, even though these were
15 not the products that Mrs. Hyde received.

16 And based on this experience with the Recovery filter,
17 Bard did learn. And what happened was when the Recovery filter
18 was out there, Bard did receive complaints or reports of things
19 that were occurring. And the thing that was the most
20 concerning, you heard Ms. Zaic talk about this, was what is
21 known as cranial migration or cephalad migration. And as she
22 told you, that is migration when the filter moves up toward the
23 head or toward the heart. And that's really something you want
24 to avoid.

25 And so based on that experience, Bard made some

1 dimensional changes between the Recovery and the G2 to prevent
2 that as well as to try and prevent additional fractures. And
3 as you can see here, I mean, you can -- it's not that hard to
4 see, but the arms of the filter got made longer and a little
5 bend got put in them, and the span of the legs got made a
6 little wider. And then you can also see the hooks -- it's kind
7 of hard to tell here, but they got made a little longer and a
8 little stronger. And all of that was to try and bring more
9 stability to the filter.

10 And the evidence is going to show that these things
11 worked. I mean, they helped. And Bard's own internal testing
12 will show that the G2 filter, which you hear called the G1A --
13 everything's got two names in this case, so I apologize for
14 that. But the G2 filter compared to the Recovery filter did
15 have better fracture resistance, and it also did better with
16 migration resistance.

17 But importantly, this is not what this case is about.
18 These are the early generation filters, and neither one of
19 those filters are the filter that's in Ms. Hyde. There's no
20 dispute about that. We know that.

21 And I'm going to talk a little bit more about Bard
22 filters as they continued to innovate. You see there the G2
23 and the Eclipse, and you heard something about this too. But
24 after Ms. Hyde's filter was put in her in 2011, there were
25 additional filters that came on the market. And the one you

1 see here on the left is the Meridian filter. And that added
2 some additional anchors to try and keep the filter, again, more
3 stable within the cava and to prevent it from moving down, from
4 migrating caudally, and that's the direction toward the feet.

5 But that filter was not on the market when Ms. Hyde
6 got her filter. It was still being tested, and it had not yet
7 been cleared by the FDA. And the filter that's on the market
8 now, the Denali filter, is really quite unusual. Before the
9 Denali filter, all of these filters were made by various
10 component parts that were welded together. But the Denali
11 filter is made from one piece of Nitinol. It's forged out of
12 one single thing, so everything about that filter is all one
13 piece.

14 And at the time Ms. Hyde got her filter, this was
15 completely in the development stage, and it did not get
16 introduced into the marketplace until 2013.

17 So this case is not about these subsequent filters,
18 and it's not about the prior filters. And what this case is
19 really more about are the G2X filter -- which you see here, and
20 you can see the difference where the G2X has got the hook on
21 top. And that allows the doctor more options to try and
22 retrieve the filter -- and then the Eclipse filter. And that
23 added electropolishing, and you heard a little bit about this.
24 And this process, electropolishing, really smooths out the
25 surface of the filter.

1 And that's some photographs that were taken with an
2 electron microscope. I mean, this is the kind of level we're
3 talking about. But you can see that prior to electropolishing,
4 there were some imperfections in the surface of the filter, and
5 those are things that potentially could be the source of a
6 fracture. So electropolishing was added to try and reduce
7 fracture even more.

8 Now, you've obviously heard something about this. I
9 mean, what is the filter in Mrs. Hyde, or that Mrs. Hyde had in
10 her at the time? Of course, it's out now. And the real answer
11 is nobody knows, and this is really weird. I mean, this is a
12 very unusual situation for a case, because usually everybody
13 always knows what product is in a patient.

14 But there's several sources of potential information
15 that might shed light on this, and I'm just going to go through
16 them with you and tell you what we think the evidence will show
17 on them.

18 First of all, the filter has a hook, so we know it's
19 not a Recovery or a G2. And we know that based on the imaging
20 that was taken of the filter, the x-rays and the CT scans that
21 were done of Mrs. Hyde's filter when it was in her body. So
22 you will see those yourself, and you can look at it, and you
23 will see that it's got a hook on it. So that completely
24 eliminates the possibility of it being a G2 or a Recovery.

25 But even though those x-rays will tell us that it's

1 got a hook, if you look at the G2X and the Eclipse under an
2 x-ray, they really look exactly the same. Dimensionally, they
3 are really pretty much -- there's no difference. And you're
4 not going to hear a witness that is going to come into the
5 courtroom and tell you that "I can look at these images and
6 tell you that this is a G2X or an Eclipse filter."

7 When Mrs. Hyde went to Stanford and had the filter
8 removed, it was not retained. That's obviously another source
9 that you could have, but Stanford disposed of the filter. And
10 I'm not ascribing any fault to Mrs. Hyde because of that. I
11 mean, Stanford just didn't keep it. So if the filter was still
12 around, it could be inspected and we could figure out what
13 filter it was, but it just doesn't exist anymore.

14 And then medical records, as you may have picked up
15 some from Ms. Zaic's presentation, they call it G2X, they call
16 it G2, they call it Eclipse. So it's kind of all over the
17 place.

18 And usually when these products are implanted, you
19 know, when the kit comes for the doctor to open up and use,
20 there's a sticker that can get peeled off of the material that
21 comes with the product, and it gets just stuck right there in
22 the medical record. And that's usually what we always use to
23 know what product it was.

24 But in this case, again, through no fault of
25 Mrs. Hyde, that doesn't exist. We don't know why. Just for

1 whatever reason, in the records from the hospital where the
2 filter was implanted, there's no sticker. There's no lot
3 number. There's no real identifier of what this filter is.

4 And you're also going to hear the testimony of her
5 treating doctors. You heard some about Dr. Henry. He's the
6 doctor that put this in in Wisconsin. And you heard about
7 Dr. Kuo, who was the doctor who took it out in Stanford. And I
8 want you to listen very carefully to their testimony. They
9 won't be here live. You're going to see both of them by what
10 we call depositions, but it's a video deposition, so you'll get
11 to see what they look like.

12 And you'll hear both of these doctors tell you that
13 "Sitting here today, I can't tell you what filter this is." So
14 listen carefully for that, and make those decisions for
15 yourself.

16 But there are some records that we think provide some
17 circumstantial evidence of what this filter is, and these are
18 billing records. I mean, this is -- you know, we're kind of
19 hitting the bottom of the barrel here as far as these types of
20 evidence. But I did want to tell you what we've got.

21 And this is a chronology that kind of lays some of
22 this out. And let me go through this with you, but I'm going
23 to start you with February 25th, 2011, just to kind of orient
24 you, because that's the day that Mrs. Hyde got her filter.

25 And then -- and as you see, Mrs. Hyde's filter was

1 placed by a jugular approach, so her doctor, Dr. Henry, went in
2 through her neck. And we can tell that from the medical
3 records, so that we know that the kit that got used was a
4 jugular kit. So that's what we're looking for is a jugular
5 filter.

6 And so if you go back up to the top, in October of
7 2009, that's when the G2X came on the market, about 18 months
8 before Mrs. Hyde received her filter.

9 And then in January of 2010, the Eclipse came on the
10 market. So it had been on the market for a little more than a
11 year when Mrs. Hyde got her filter.

12 Now, we know that the last time that the hospital
13 where her filter was placed, when -- the last time they ordered
14 a G2X filter that could be used from a jugular approach was in
15 January of 2010. So if this was a G2X, it sat on the shelf for
16 more than a year before it got used on Ms. Hyde. And I'm not
17 telling you that's impossible, but that's what would have had
18 to have happened.

19 And then you see in these sort of interim dates, those
20 are dates when the hospital ordered Eclipse filters. And from
21 November to January the 12th, there were six different filters
22 that were ordered, but they were all femoral filters. So we
23 know that none of those filters were used in Ms. Hyde because
24 she got a jugular filter.

25 But on February 23rd, two days before Mrs. Hyde's

1 procedure, a filter -- an invoice was done by Bard to the
2 hospital for a jugular filter, an Eclipse filter, and a femoral
3 filter as well. There were two that day. But those filters
4 were shipped out from C.R. Bard to the hospital for two-day
5 delivery FedEx, and we know that the filters arrived the
6 morning of Mrs. Hyde's procedure. And we also know from the
7 medical records that Mrs. Hyde's procedure did not start until
8 about 1:00 in the afternoon.

9 And then one other fact to be aware of is that after
10 her procedure was done, a few days later, on March the 1st,
11 2001 [sic], the filter ordered -- excuse me, the hospital
12 ordered another jugular Eclipse filter. And I submit to you
13 that that is some circumstantial evidence that the hospital was
14 replacing the jugular filter that was used in Ms. Hyde, the
15 Eclipse filter. But again, we don't know; but I do think this
16 is some circumstantial evidence that the filter used in
17 Ms. Hyde was an Eclipse filter.

18 But at the end of the day, as far as Bard is
19 concerned, we don't think it matters. Both of these filters
20 were really good filters. And importantly, these are rates
21 that Bard uses to track complications and things that occur
22 with its products. I mean, that's something they do on a
23 routine and regular basis.

24 And you heard Ms. Zaic talk about this some, but, you
25 know, when reports come into Bard from various sources, from

1 doctors or hospitals or an individual, Bard is obliged to keep
2 up with that information and provide that to the FDA. And so
3 as part of this process, Bard does these trending numbers. And
4 what they do, they take the number of complications that are
5 reported to them and compare that to the sales of that product,
6 and come up with these rough rates about what are the
7 complication rates that Bard is being -- receiving from the
8 field.

9 And as you can see, for the G2 Express and the
10 Eclipse, these rates continue to trend down from the prior
11 filters. That first column you see is -- the RF, that's the
12 Recovery filter. And then the next one is the G2, then the G2
13 Express and the G2X, one column, and then the Eclipse. And
14 over the course of time, these numbers come down. And that's
15 what's important to Bard, that the improvements that they're
16 making to these products are working.

17 And there are the numbers that Bard has for reported
18 rates for some of the things you've heard about that can happen
19 with filters, some of these complications for fracture,
20 migration, perforation, and tilt.

21 And to look at these numbers in a little bit different
22 way, you know, this means that for the G2X, that as far as the
23 reported amount of complications that's coming to Bard, you
24 know, it's almost a hundred percent of -- slightly over
25 99 percent of the filters that they're selling, they're not

1 hearing back reports of complications.

2 And with the Eclipse, that is -- numbers get a little
3 bit better.

4 Now, I'm sure you're going to hear evidence during the
5 course of the trial that these numbers are not that great. I
6 mean, that these are subject to criticism. And Ms. Zaic talked
7 about that some in her presentation. She talked about
8 underreporting, that all the things that happen with these
9 products don't get reported.

10 And Bard does not dispute that. I mean, that's real.
11 That happens. And busy doctors are not going to report every
12 single complication they see.

13 And -- but this is a very important part of Bard's
14 story, because this is something that they do ongoing,
15 constantly, to try and see what these numbers are doing and how
16 they're trending and are they getting better. And that's the
17 important thing. And we're not here to tell you these numbers
18 are perfect, but they are some information that Bard relies on
19 based on its internal information.

20 Now, next I'm going to talk about the plaintiff,
21 Mrs. Hyde. But before I do, I need to tell you that the last
22 thing we are here to do is to criticize Mrs. Hyde. And we do
23 need to talk about Mrs. Hyde, because I think her medical
24 history is very important to this case, but we all feel
25 sympathy for her. I mean, she went through an ordeal, no

1 question. I mean, she found out she had a piece of metal in
2 her heart. Nobody wants to hear that.

3 But even though we're human and we feel sorry for her
4 and feel sympathy for that situation, her overall medical
5 history is very important to this case. And there's some
6 things that I want to address with you.

7 And here's the timeline, and I hope you can see
8 that -- those points on there, because they're a little bit
9 small. But in the late 1980s, Mrs. Hyde experienced her first
10 PE. And that was a point in her life when she was younger and
11 she was taking birth control pills. And there's a known
12 association between birth control pills and blood clots. And
13 so at that point in time, that's what that clot was attributed
14 to.

15 Then you fast-forward many years later to February of
16 2009, and Mrs. Hyde experienced another -- a second PE and a
17 DVT. And standard therapy is to receive anticoagulants. First
18 when she was hospitalized for that, she received intravenous
19 anticoagulants like we discussed earlier, and then when things
20 were a little better, she was discharged but she continued to
21 take oral anticoagulation for a standard period of about six
22 months.

23 That's usually what happens, and if you don't have any
24 clotting issues for about six months, your doctors will usually
25 take you off those medications. And that's what happened with

1 Mrs. Hyde.

2 But then in February of 2011, almost two years exactly
3 from when she had the DVT and the PE in '09, Mrs. Hyde
4 developed another DVT and PE. And this was quite a large
5 pulmonary embolism in her lung, and in fact, she had a
6 pulmonary embolism in both of her lungs, both her right lung
7 and her left lung.

8 And the one that was on the right was really quite
9 large. And her doctors really kind of went immediately back
10 into that same treatment mode, where she receives intravenous
11 blood thinners in order to try and treat those clots.

12 But this time, because of the proximity of this event
13 to the prior event just two years before, an interventional
14 radiologist named David Henry was called in to assess whether
15 Mrs. Hyde should receive an IVC filter. And it was Dr. Henry's
16 medical judgment that she needed as much protection as possible
17 while these anticoagulants were getting up to speed and
18 starting to work in order to protect her from PE.

19 And you'll also hear that Dr. Henry specifically
20 wanted her to receive a retrievable filter. And that's what he
21 did, and he implanted that filter on February the 25th at this
22 hospital in Wisconsin.

23 Next day, the doctors are doing some more testing on
24 Mrs. Hyde, and that is when it's determined that she has got
25 this clotting disorder called a protein C deficiency. And that

1 means, unfortunately for Mrs. Hyde, that she is going to need
2 to take anticoagulants for the rest of her life. And hopefully
3 that will all go very, very smoothly.

4 And so when she was discharged at this period, she
5 ultimately was taking Coumadin for a period of time, and then
6 later she switched to one of the newer generation
7 anticoagulants, a drug called Xarelto, and she's still taking
8 that drug today. And Mrs. Hyde sees the doctor on a regular
9 and routine basis multiple times a year in order to check her
10 for -- to make sure that everything's going okay on those
11 anticoagulants.

12 But as Mrs. Zaic discussed in her presentation, in
13 August of 2011, the Hydies moved from Wisconsin to Las Vegas so
14 that Mr. Hyde could pursue a new job in Las Vegas. And I just
15 again orient you, just like she did, that at that point in time
16 we shift from medical care in Wisconsin to medical care in
17 Nevada.

18 And so several years later, as Ms. Zaic indicated,
19 Mrs. Hyde was being worked up in May of 2014 to see if she had
20 a kidney stone. And as part of that, a CT scan was done, an
21 imaging study, to see if she had a stone. And the doctor that
22 read the images from that CT scan noticed what he thought was a
23 piece of metal in her heart. And as Ms. Zaic indicated, this
24 was an incidental finding. Nobody was looking for this at the
25 time, but the doctor was smart enough to pick up on it.

1 And so they did some confirmatory imaging after that
2 and realized that this was a piece of the filter. One of the
3 struts, an arm of the filter, had broken off and migrated to
4 her heart and ended up in her right ventricle.

5 And as Mrs. Zaic indicated, Mrs. Hyde did do her own
6 research, and she found a doctor in Stanford that she wanted to
7 go see to see if he could remove the filter and the strut from
8 her heart. And that's the decision that she made. And as
9 Mrs. Zaic indicated, she could not get an appointment with him
10 until August of 2014. And in the interim, she did see a doctor
11 named Richard Shehane, who was a cardiologist in Las Vegas.

12 But ultimately, the Hydes did travel from Las Vegas to
13 Stanford, which is in Palo Alto, California, and they saw
14 Dr. Kuo on the -- you know, one day. He -- she was admitted to
15 the hospital the next. He did the procedure.

16 And as you can see on the timeline, the total time to
17 remove both the filter and the strut was about an hour and a
18 half, and then she was discharged from the hospital the next
19 day.

20 Now, those are kind of facts that are very basic that
21 I think everybody sort of agrees on. But the evidence will
22 show those facts. But there's certain things we're probably
23 going to have some dispute about, and so I'm going to have to
24 ask you jurors to put your medical detective hats on.

25 And when I first started as a lawyer, you know, the

1 medical detective that everybody identified with was Quincy.
2 And we've got jurors here who I'm sure have never heard of
3 Quincy and have no idea who he is. So I included some other
4 once. We've got Dr. House, and then we've got some of the
5 people from -- Abby Sciuto from NCIS and Loretta Wade from CSI
6 New Orleans. There's so many CSIs, I can't even keep up with
7 them anymore, but that's the one she's from.

8 But what you're going to get a chance to do is to see
9 Mrs. Hyde's medical records yourself. And you're going to get
10 to make determinations based on your own experience, your own
11 judgment, about what you think those records show.

12 And as you go through those records, and you heard
13 Ms. Zaic allude to this, I want to talk about two specific
14 periods. First of all, February 2011 to August of 2014, and
15 that was the period of time when the filter was in Mrs. Hyde's
16 IVC. And you may hear claims in this case that it was causing
17 things like abdominal pain, the filter itself, and back pain
18 from where it was interacting with other organs.

19 But as you see these medical records and you hear the
20 testimony, I want you to ask yourselves, were there other
21 things that were going on that might attribute to these things
22 that Mrs. Hyde was experiencing. And be on the lookout for
23 things like: Did she indeed have a kidney stone? Did she get
24 diagnosed with endometriosis? Did she have to have surgery for
25 that? Did she get diagnosed with diverticulitis and get

1 treated for that? Does she have degenerative disk disease, and
2 if she does, when did that start and what kind of issues can
3 that cause? And was she diagnosed with something called
4 fibromyalgia, which is a generalized pain disorder?

5 And again, you're going to have to sort through all
6 those things yourself.

7 And you also may hear claims about -- during this time
8 period about chest pain and chest palpitations that perhaps may
9 be attributed to the strut that unfortunately wound up in
10 Mrs. Hyde's right ventricle. And when you hear evidence about
11 that, ask yourself, when did those things start? And when did
12 they stop? And were there other things that were going on that
13 perhaps might cause those particular types of conditions?

14 And again, that is your decision as the jurors.

15 Another important time period is going to be September
16 the 14th to September the 18th [sic]. And that's the four-year
17 time period that has elapsed since the filter and the strut
18 have been removed from Mrs. Hyde by Dr. Kuo at Stanford.

19 And you may hear evidence in this case that Mrs. Hyde
20 may be at risk of certain heart conditions because of the strut
21 that was in her heart. And so you may want to ask yourself
22 things like, has she been under the care of a cardiologist
23 since Dr. Kuo took the strut out of her heart? And if she was
24 admitted to the ER in February of 2016, did she get a full
25 cardiac workup at that time? And if she did, were certain

1 tests done? And what did they show?

2 And again, that's going to be things for you to look
3 for and you to make your own decisions about.

4 And there's going to be another important medical
5 detective aspect of this case, and that is these complications.
6 And you've heard some about that. Tilt. Caudal migration,
7 migration down. Perforation. Are parts of the arms or legs of
8 the filter, are they poking outside of the inferior vena cava?

9 And you're going to get to see the imaging yourselves.
10 And experts from both sides will probably talk to you about
11 that imaging and tell you what they think it means. And these
12 are people that are very smart that have been to medical
13 school, and they know a lot. But at the end of the day, you're
14 the people that decide those issues. And you'll be able to
15 view those images yourself, and you'll be able to decide, do I
16 think that this filter tilted? Do I think it caudally
17 migrated? And if it did perforate, what did that mean?

18 And again, those are things you're going to have to
19 look for and come to your own conclusions.

20 All right. Last thing I'm going to talk about is the
21 plaintiffs' burden, and it's going to take a while. I realize
22 that sounded like I was going to wrap up, so I need to at least
23 be honest with you.

24 But Mrs. Hyde is asserting an alleged defect case, the
25 design defect. You heard about that. We're going to talk

1 about that. We're going to talk about causation. And then
2 last thing, I'm going to talk about damages.

3 But first of all, let's talk about design. And that
4 gets back to sort of where we started. That's the issue of did
5 the benefits of this filter outweigh the risks of this filter.
6 And that's really what is a critical question in this case.

7 And I submit to you that the evidence is going to show
8 that the benefits are quite substantial. If you have a
9 recurrent PE, you have up to a 30 percent risk of death from a
10 subsequent PE. And Mrs. Hyde was on her third PE,
11 unfortunately, when this filter was placed in February of 2011.

12 And even though anticoagulants provide very good
13 protection from blood clots, those products are not without
14 risks. And you may have heard about some of this. But
15 anticoagulants, both the intravenous kind and the oral kind,
16 come with risks, and primarily it's risks of significant
17 bleeding. They don't cause bleeding, but if you happen to have
18 a bleed, the bleeding can obviously be much worse if your blood
19 has been thinned.

20 And particularly, one of the biggest issues there is
21 if you have a hemorrhage in your brain and you have a stroke,
22 that can be potentially fatal or cause permanent damages. So
23 those products are not without risk.

24 But what you're going to see is that of the patients
25 who receive a Bard filter, according to Bard's internal data,

1 very, very few of those patients report experiencing a
2 pulmonary embolism when a filter is in place. And again, I'm
3 not here to tell you that filters are a replacement for
4 anticoagulants. That is really kind of the gold standard where
5 doctors typically go to in order to treat these conditions.
6 But filters are an excellent treatment for doctors that they
7 can use instead of anticoagulants if it's the right patient.

8 And so why do they do that? Why do doctors do that?
9 I submit to you that's because the doctors realize that these
10 filters have the benefit of potentially saving a patient's life
11 from a deadly pulmonary PE. And they realize that there are
12 risks that come with these products, but they're willing to
13 accept those risks and advise their patients about those risks
14 in order to give them the protection they need against
15 pulmonary embolism.

16 All right. Let's talk a little bit about the design
17 challenges. And you're going to hear some of the Bard
18 witnesses talk to you about this yourselves. But as Ms. Zaic
19 indicated, the IVC is a very dynamic environment. There's a
20 lot of forces that are going on. And when you design a product
21 in order to be put into the human body, you have to have a lot
22 of different considerations at play.

23 And as you can see from this, I mean, this shows the
24 IVC, the blue one, the inferior vena cava, the venous side, and
25 then it's next to the aorta, which is the red one, the arterial

1 side. And of course, in this cartoon, you know, these things
2 are straight up and down like a tree trunk kind of. And, of
3 course, you know as well as I do that that's not the way people
4 are. I mean, people are continually moving in all kinds of
5 different ways. We're not walking around, you know, like
6 trees. So there's a lot of forces that are obviously exerted
7 from time to time on the inferior vena cava.

8 And people also do things like cough. You know, you
9 have what's called a Valsalva maneuver if you put pressure down
10 into your abdomen, and that can also increase the stresses in
11 that environment. But all of those things have to be
12 considered, and you're going to hear the Bard people talk about
13 that.

14 And as you're designing these products, it's kind of a
15 continual trade-off as well, and that's what the evidence is
16 going to show through the Bard witnesses. When you design a
17 product that is intended to go in the body and then to be
18 retrieved percutaneously, you have to have some considerations
19 as to what are going to be the design attributes that are going
20 to allow the filter to be put in the body, remain there, and be
21 effective, but also to be retrieved later on.

22 And you can strengthen all of the various parts of the
23 filter. You can make the legs more strong. You can use
24 thicker metal. You can make the hooks stronger. You can use
25 thicker hooks. But all of that means that you're one step

1 closer to this filter either being very difficult to retrieve
2 or perhaps not possible to be retrieved.

3 So those are all design considerations that you're
4 going to hear about from the folks at Bard.

5 Ms. Zaic talked about this, too, briefly, and this is
6 something you're going to hear about. The Society of
7 Interventional Radiologists, that is an organization that is
8 comprised of the doctors who are primarily the people who do
9 procedures to put these types of products in. And in 2001,
10 this document was pulled together by a gentleman named Clem
11 Grassi or Clement Grassi. And you're going to see him testify
12 in Bard's case.

13 And Dr. Grassi led this effort to try to get a working
14 group within this organization to basically cull the medical
15 literature and try and pull together the information that was
16 available in the medical literature about what types of rates
17 of complications are being seen with IVC filters.

18 And this was not about Bard's IVC filters. This was
19 about IVC filters in general. And when this was first
20 published in 2001, Bard's retrievable filter had not even come
21 on the market yet. The Recovery was not on the market, so all
22 this data was about the filters that were permanent filters.

23 But you'll see that they put this chart together that
24 appears in this article, and this is some of the information
25 that they found, that with IVC penetration, you saw rates from

1 0 to 41 percent. Migration, you saw 0 to something. I can't
2 see it. You have to forgive me. I hope you folks can. And
3 then for filter fracture, the rates they saw were 2 to
4 10 percent.

5 And so that was information, again, that was available
6 to the medical community and was an important data point for
7 people involved in the IVC filter world to be knowledgeable
8 about and cognizant about. And again, you're going to probably
9 hear criticism from the plaintiffs that this is not intended
10 for IVC filter manufacturers.

11 We do not disagree. That was not what it was intended
12 for. But again, if you are a manufacturer of an IVC filter, I
13 submit to you this is important information for you to be
14 cognizant of and to be aware of.

15 All right. The design process. And again, I think
16 you folks know that, you know, you can't just snap your fingers
17 and put a filter on the market. There is a regulation that
18 process -- regulatory process, excuse me, you have to go
19 through through the FDA. And as you heard, these products have
20 to be what is called "cleared" in order to enter the
21 marketplace.

22 And this story kind of starts, again, way back in the
23 mid-'90s. And, you know, before this period, IVC filters were
24 what were known as a Class III medical device, and that's the
25 class that most implantable devices fall into. And if you were

1 a Class III device, you have to go through this process that
2 Ms. Zaic talked about called a premarket application, and it is
3 quite a rigorous process, and submit that to the FDA.

4 But in 1996, the FDA started looking at IVC filters,
5 and they were analyzing whether they should do what is known as
6 down-classify IVC filters. In other words, move them from a
7 Class III medical device to a Class II medical device, which
8 requires less regulation and is not as rigorous in order to put
9 it on the market.

10 And so this is an internal memo from FDA that you'll
11 see during the evidence here. And you'll see that FDA looked
12 into IVC filters and decided that the risks that those filters
13 can cause are potentially life threatening, they realized that,
14 but they also looked at what the rates were that they were
15 seeing in the medical literature, just like the Society of
16 Interventional Radiologists did, and that was included in this
17 memo.

18 And ultimately, the FDA determined, because pulmonary
19 embolism is such a serious clinical issue, that they determined
20 that filters do not present an unreasonable risk of illness and
21 injury. And they moved IVC filters from Class III to Class II.
22 And so at that point, these filters could go through this
23 regulatory process called the 510(k) process.

24 Now, another document you'll see is an FDA guidance.
25 And that document was published by FDA in 1999. And these

1 guidances are just what they sound like, they're guidance for
2 people who are in the manufacturing business so that you will
3 know FDA's best thinking about what the FDA expects.

4 And the FDA publishes things that they expect, if
5 you're going to submit a 510(k) application, should be in the
6 application. And that includes a wide range of testing that
7 they expect you to submit to them.

8 And as you see here, that's deployment, clot trapping,
9 filter fracture, caval perforation, and migration. Those are
10 all tests that FDA wants to see.

11 And Bard, in each of its applications, submitted that
12 type of information. But Bard also did more testing than what
13 is just simply required via these 510(k) applications. And you
14 will, unfortunately, get to go through all of this in
15 painstaking detail.

16 But the G2 filter, for instance, when it was put on
17 the market, there is a list of the types of tests that were
18 done: migration studies, fracture, stimulated use, radial
19 strength, finite element analyses, tensile strength, leakage
20 tests, et cetera. And they also did some in vivo testing with
21 animals, with sheep.

22 And again, these tests that they performed showed
23 improvement in many categories, including fracture, over the
24 prior-generation filter, the Recovery filter. And so that
25 application for the G2 was submitted to FDA. There was some

1 back and forth where FDA wanted to ask additional questions,
2 and ultimately, the FDA did clear the G2.

3 And then the G2 Express comes next, and there's more
4 testing. And they compared the fracture resistance of the G2X
5 to the G2 filter and found improvement. And you'll hear Bard
6 witnesses talk about these tests.

7 And again, there's multiple tests. Kind of going
8 through this sort of quick, and I apologize. But, you know,
9 that's a test there that they did called flat plate testing
10 where the filter is put in a simulated environment to kind of
11 press it up and down, over and over again, and the filter
12 survived at this point a 77-year test. And you'll see that,
13 and you'll hear a Bard witness talk about that.

14 And then the Eclipse comes along with the
15 electropolishing, and so there's more testing that's done. And
16 the Eclipse is also compared, as far as fracture resistance, to
17 the prior-generation filters. And in this bench testing that
18 Ms. Zaic talked about, again, there is continued improvement.

19 And that's, again, comparing it to the
20 prior-generation filters. This particular test showed that it
21 was 77 percent better for fracture resistance.

22 And this just gives you a little bit of history of the
23 clearances that FDA has given to Bard filters over time. The
24 G2 was cleared on two occasions, once as a permanent indication
25 and once as a retrievable indication. The delivery system for

1 the G2 was approved on two occasions. The G2X was approved.
2 The delivery system for the G2X was -- I said approved, excuse
3 me. I should correct myself -- was cleared.

4 The G2X delivery system was cleared. The FDA cleared
5 the Eclipse. And then the FDA also cleared a patient brochure
6 that relates to the Eclipse, and we're going to look at that in
7 just a minute.

8 But before we leave the FDA story, this is something
9 else that I think is an important piece of this. And in 2010,
10 in August, the FDA issued what is known as a safety
11 communication about retrievable IVC filters. And so this would
12 have been a few months before Mrs. Hyde's filter was implanted.

13 And as you can see from the document that we have, the
14 FDA directed this -- the audience they directed it to were the
15 medical community that put these filters in and monitors
16 patients who have these filters.

17 And the FDA doesn't regulate medicine. It regulates
18 medical devices and drugs and things like that, but it doesn't
19 regulate the practice of medicine. So this is kind of an
20 advisory thing that the FDA issued.

21 And as you can see, below there, the FDA suggested
22 that if you have patients that have retrievable filters and
23 you're following them, and if the indication for why that
24 filter was originally put in is no longer present, in other
25 words, if you're that patient who takes an anticoagulant and

1 you came off the anticoagulant for surgery and you're able to
2 go back on the anticoagulant, then the indication is now gone.
3 And at that point, doctors should consider removing the filter
4 at that time.

5 But more importantly, the FDA also acknowledged in
6 this communication to the medical community that there were
7 risks that they knew existed with retrievable filters and that
8 doctors should be cognizant of, and that included all the
9 things you've heard: perforation, fracture, and migration of
10 these products.

11 Now, you heard Ms. Zaic mention this. This is another
12 part of this case. It's called reasonable alternative design.
13 This is a design defect case. And so part of the burden that
14 the Hydes have is to prove to you that there was a reasonable
15 alternative design. In other words, you can't just say it's
16 defective. There has to be something that would have been a
17 different design that would have either eliminated the risk or
18 reduced the risk.

19 And I want you to listen to this evidence very
20 carefully, because you're going to hear from a number of people
21 throughout trial who are going to speak to this issue. But
22 you're, again, going to have to decide for yourselves, are the
23 products that -- or product attributes that I'm hearing about,
24 do I consider that to be a reasonable alternative design for
25 the G2X filter or the Eclipse filter?

1 And ladies and gentlemen, I submit to you that one
2 enormous difference between what you might hear about filter
3 attributes are whether it is a permanent filter, a filter that
4 was only meant to go in and never be removed percutaneously,
5 versus a retrievable filter like the G2X and the Eclipse that
6 could be removed percutaneously. And so listen out for those
7 things.

8 And also listen very carefully to Dr. Henry's
9 testimony, and listen to see if he says that the filter he put
10 in Mrs. Hyde was a filter that he wanted to be a filter that
11 could be retrieved.

12 Now, you're also going to see the instructions for use
13 that accompany this product. And this is information that is
14 provided with the product to provide doctors information about
15 the product.

16 Now, these do come in every single box, and I don't
17 suggest to you that in the OR the doctor is opening the box and
18 pulling this out and reading it and trying to figure out what's
19 going on. I mean, these things are available via the website,
20 many other different sources.

21 And I also submit to you the evidence will show that
22 most of the things that are contained in here are things that
23 doctors generally already know. But there's nothing wrong with
24 the belt and suspenders to provide this information.

25 But the information you're going to see about these

1 warnings relates to the design defect claim. And you're going
2 to have to look at this and see if the information that is in
3 the warning is information that would provide the potential
4 user information that may help them understand the risks and
5 understand the design of the product.

6 And so to look at this, I'm going to pull out some
7 portions of this. And in both the G2X and the Eclipse filter,
8 this language appears. And it's identical, so it really
9 doesn't matter which one we're talking about at this point.

10 But there's a section about potential complications.
11 And as you see up at the top, it says: Movement, migration, or
12 tilt of the filter are known complications of vena cava
13 filters. Migration of filters through the heart or lungs have
14 been reported. There have also been reports of caudal
15 migration of the filter.

16 That was in this instructions for use.

17 Next bullet says: Filter fracture is a known
18 complication of vena cava filters. There have been reports of
19 serious pulmonary and cardiac complications with vena cava
20 filters requiring the removal of the fragments using
21 endovascular and/or surgical techniques.

22 That was information that was contained in the
23 instructions for use.

24 It also says that perforation or other acute or
25 chronic damage of the IVC can occur.

1 And lastly, it says that filter tilt can occur.

2 Other portions of this, it does indicate that all of
3 the complications could be associated with adverse events such
4 as medical intervention or death, and it even goes on to say
5 that the risk-benefit needs to be analyzed for everybody
6 patient. You have to do an individual risk-benefit analysis to
7 determine if this is an appropriate device for that patient
8 based on their own individual medical history. And that's up
9 for the doctor to decide.

10 And lastly, it does note that the standards and
11 guidelines developed by the Society of Interventional
12 Radiologists recommend that patients with filters, both
13 permanent and retrievable filters, be tracked and receive
14 routine follow-up subsequent to the placement of the device.

15 That's other information that's in the IFU.

16 And I mentioned this a moment ago. This is the
17 patient brochure that was accompanied -- well, it wasn't
18 accompanied with the filter, but it was something that was
19 available to doctors that they could give to their patients if
20 they wanted to. And this is something that contains in fairly
21 layman language some information about the IVC filter.

22 And I'm going to pull this section out for you. And
23 as you can see, it says: What are the risks associated with
24 implantable filters? As with all implantable devices, there
25 have been risks associated with vena cava filters. You should

1 discuss the possible adverse effects of this procedure and the
2 filter with your physician. Potential risks include the
3 following:

4 The entire filter or pieces of the filter may break
5 loose and travel to the heart or lungs, causing injury or
6 death. You may need to have an additional surgery to retrieve
7 the filter or pieces if they break loose.

8 And ladies and gentlemen, I submit to you that's
9 exactly what transpired in Mrs. Hyde's case.

10 And as I mentioned to you earlier, this particular
11 patient brochure was specifically cleared by the FDA.

12 You did hear some information about the MAUDE
13 database, and that's a database that's proprietary with the FDA
14 that they keep up with. And any report that comes from
15 anywhere to the FDA is put into this MAUDE database as it
16 relates to devices.

17 And it's probably going to be a disputed issue, but
18 you may hear evidence that Bard's -- the information it
19 provided doctors should have put in comparative rates. In
20 other words, you should tell doctors about how one filter
21 compares to the next.

22 And if that information is based on the MAUDE
23 database, if you hear evidence about that, I think you should
24 be aware that the evidence will show that right there on the --
25 you know, the website for the MAUDE database, it says: MAUDE

1 data is not intended to be used either to evaluate rates of
2 adverse events or to compare adverse events occurrence rates
3 across devices.

4 All right. Let me speak just really briefly to kind
5 of address some of the things that Ms. Zaic said. And you will
6 hear evidence throughout this case, and I do want to mention
7 it, a lot of the evidence you're going to hear from the
8 plaintiffs, I submit to you, will likely be based on the early
9 generation filters, the Recovery filter and the G2 filter,
10 which we know were not the filters implanted in Mrs. Hyde.

11 And if we're spending a lot of time in this trial
12 talking about those filters, I just ask you to ask yourself
13 why, when we know that's not what was implanted in Mrs. Hyde.
14 And I submit to you that it will be presented by well-paid
15 experts, but listen, that street's going to run both ways. All
16 the experts that you see in this case are going to be well
17 paid.

18 MR. LOPEZ: I'm going to object. He's arguing now.
19 He's not really presenting evidence, what the evidence is going
20 to show.

21 THE COURT: All right. That objection is overruled,
22 but stick to the evidence. And we've got about four minutes,
23 Mr. Rogers.

24 MR. ROGERS: Thank you, Your Honor. I'm going to wrap
25 it up very quickly.

1 And also look at documents and see if they're taken in
2 context if you're just seeing snippets and pieces.

3 And again, I submit to you that the evidence that
4 you're going to see from the plaintiffs is contradicted by the
5 whole story, the complete story, and it's also contradicted by
6 the numbers. And these are these same tracking and trending
7 numbers that I showed you earlier for both the G2X and the
8 Eclipse.

9 Very briefly, I'm going to talk about causation.
10 That's something the plaintiffs have the burden of. And as you
11 hear information in this case, if you hear claims about these
12 things, again, it's up to you to decide, you know, are these
13 attributable to the filter, to the strut, or are there other
14 issues? And that's your decision.

15 But it is Mrs. Hyde's burden to prove these things to
16 you, as is it her burden to prove damages. So any information
17 you hear about damages, Mrs. Hyde has got the burden of proof
18 to prove to you that those are damages that should be
19 attributed to the filter.

20 So to conclude, I'm back to my scales. This key issue
21 is the risk-benefit analysis. Did the benefits of this filter
22 outweigh the risks that were always there and potential with
23 this filter? And I submit to you, as you hear the evidence
24 over the course of this next two and a half weeks, that it will
25 show that the benefits of this filter for Mrs. Hyde outweighed

1 the risks.

2 And I think as soon as you see this whole story, you
3 will come to the conclusion that Bard has been wrongfully
4 accused in this case. And we'll come back to you and ask you
5 to return a verdict based on that basis at the close of the
6 evidence.

7 Thank you very much.

8 THE COURT: All right. Thanks, Mr. Rogers.

9 Ladies and gentlemen, we're going to break for the
10 day. We will plan to begin at 9:00 o'clock. If you could
11 please factor in travel time getting here, that would be
12 helpful. I will tell you that in about half of my trials, when
13 we're ready to go at 9:00 o'clock on the second day, one juror
14 is not here because they didn't anticipate traffic, so please
15 factor that in so we can start right at 9:00 o'clock.

16 As I mentioned, we've got a schedule and a time limit
17 in the case, so we're going to try and stay right on schedule
18 so we finish it on time.

19 Please also remember not to talk about the case or do
20 any research about it, and we will plan to see you at 9:00 in
21 the morning.

22 We'll excuse the jury. Thank you.

23 (Jury not present.)

24 THE COURT: All right, counsel. For your information,
25 plaintiff used 1 hour and 5 minutes, and defendants used 1 hour

1 and 9 minutes.

2 I've got another hearing that I need to start in a
3 couple of minutes. Are there any urgent matters that we need
4 to take up?

5 MR. LOPEZ: Well, I'm not sure it's urgent, but in his
6 opening statement, he made the statement about Dr. Henry
7 getting a patient brochure and whether or not he shared it with
8 Mrs. Hyde. I mean, he just turned this into a warnings case.

9 I mean, he said that right at the end when he was
10 going through the patient brochure. And he went through every
11 single complication that's relevant in this case. Now the
12 jury's wondering, well, she must have got this from Dr. Henry.

13 I mean, this has now become a warnings case. If it
14 is, then we ought to be able to put on, you know, our evidence
15 of all that. I'm just putting it out there, Judge.

16 THE COURT: Mr. Lopez, how is that different from what
17 I described this morning, that they're entitled to tell doctors
18 about -- or to tell the jury about what risks doctors were
19 advised of and you're entitled to tell the jury of what risks
20 doctors weren't advised of so the jury can decide if this
21 product was reasonably safe?

22 MR. LOPEZ: He went beyond -- he stepped over the
23 line. He talked about Dr. -- he talked about Dr. Henry sharing
24 that with Mrs. Hyde. That becomes a warning now that goes to
25 Mrs. Hyde and whether or not Dr. Henry provided that.

1 I just -- I mean, I understand this line that we're
2 dealing with, Judge. We're dealing with it, too, so I
3 appreciate it. But I have to be mindful as I hear the
4 evidence, is it becoming an unfair advantage that they get to
5 talk about certain things and we don't.

6 So, I mean, you said it this morning, it's a struggle.
7 And I don't know where that -- it's a blurred line. But I
8 think he crossed it in his opening. I'm just -- not that we
9 have to resolve it now.

10 THE COURT: Well, therefore, what?

11 MR. LOPEZ: Well, I mean, therefore, we will look at
12 the way maybe some of the evidence has been ruled on with
13 respect to that to see if we can convince you that maybe you
14 ought to let some of that in, if that's what's going to happen
15 at trial.

16 THE COURT: Well, you're certainly free to raise that
17 later on.

18 MR. LOPEZ: I understand.

19 THE COURT: Okay, counsel. Please be here at 8:30 in
20 the morning, and we'll plan to get started then and deal with
21 any issues. And we'll get the jury right in here at 9:00.

22 Thank you.

23 (Proceedings concluded at 4:29 p.m.)
24
25

C E R T I F I C A T E

I, JENNIFER A. PANCRA TZ, do hereby certify that I am
duly appointed and qualified to act as Official Court Reporter
for the United States District Court for the District of
Arizona.

I FURTHER CERTIFY that the foregoing pages constitute
a full, true, and accurate transcript of all of that portion of
the proceedings contained herein, had in the above-entitled
cause on the date specified therein, and that said transcript
was prepared under my direction and control.

DATED at Phoenix, Arizona, this 19th day of
September, 2018.

s/Jennifer A. Pancratz
Jennifer A. Pancratz, RMR, CRR, FCRR, CRC